

# Welcome to the **University of Agronomic Sciences and Veterinary Medicine of Bucharest**

## **COURSE CATALOG**

**170**  
1852 - 2022



UNIVERSITY OF AGRONOMIC SCIENCES  
AND VETERINARY MEDICINE OF BUCHAREST

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(in Romanian, English and French)

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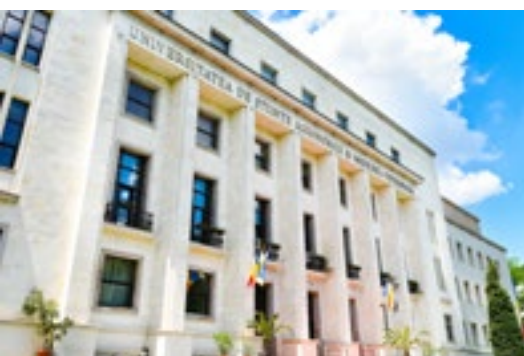
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# Faculty of Agriculture







Faculty of Agriculture  
Specialization: Bachelor in **AGRICULTURE**  
EQF LEVEL: 6  
Field of study: **Agronomy**

ISCED CODE: **0810**  
Duration: 4 years, 240 ECTS  
Full-time learning  
Language of teaching: Romanian

1st Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Mathematics and statistics	A1 F1 I1	CC	I	E	4
2	Biochemistry	A1 F1 I2	CC	I	E	5
3	Biophysics and agrometeorology	A1 F1 I3	CC	I	E	5
4	Topography and technical drawing	A1 F1 I4	CC	I	P	4
5	Energy resources and agricultural machinery I	A1 D1 I5	CC	I	E	5
6	Botany I	A1 F1 I6	CC	I	E	5
7	English language I	A1 C1 O13	CO	I	C	2
	French language I	A1 C1 O13				
	German language I	A1 C1 O13				
						<b>30</b>
8	<i>Physical training and sports I</i>	A1 C1 L16	FC	I	A/R	1
9	<i>Volunteering</i>	A1 C1 L19	FC	I	C	2
						<b>33</b>
1	Energy resources and agricultural machinery II	A1 D2 I7	CC	II	E	5
2	Botany II	A1 F2 I8	CC	II	E	5
3	Computer science	A1 F2 I9	CC	II	C	2
4	Land cadaster	A1 D2 I10	CC	II	P	4
5	Pedology I	A1 D2 I11	CC	II	E	5
6	Ecology and environmental protection	A1 F2 I12	CC	II	E	4
7	English language II	A1 C2 O14	CO	II	C	2
	French language II	A1 C2 O14				
	German language II	A1 C2 O14				
						<b>27</b>
8	Practical training (2 weeks)	A1 D2 I15	CC	II	C	3
						<b>30</b>
9	<i>Physical training and sports II</i>	A1 C2 L17	FC	II	A/R	1
10	<i>Tractor driving</i>	A1 S2 L18	FC	II	C	4
11	<i>Volunteering</i>	A1 C2 L20	FC	II	C	2
						<b>37</b>
	<b>TOTAL</b>					<b>70</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected



Faculty of Agriculture  
Specialization: Bachelor in **AGRICULTURE**  
EQF LEVEL: 6  
Field of study: **Agronomy**

ISCED CODE: **0810**  
Duration: 4 years, 240 ECTS  
Full-time learning  
Language of teaching: Romanian

2nd Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Pedology II	A1 D3 I1	CC	I	E	5
2	Energy resources and agricultural machinery III	A1 D3 I2	CC	I	C	5
3	Plant physiology	A1 F3 I3	CC	I	E	5
4	Genetics I	A1 F3 I4	CC	I	E	5
5	Entomology I	A1 D3 I5	CC	I	E	5
6	Plant pathology I	A1 D3 I6	CC	I	E	5
						<b>30</b>
7	<i>Physical training and sports III</i>	<i>A1 C3 L15</i>	<i>FC</i>	<i>I</i>	<i>A/R</i>	<i>1</i>
8	<i>English language III/ French language III/ German language III</i>	<i>A1 C3 L16</i>	<i>FC</i>	<i>I</i>	<i>C</i>	<i>2</i>
9	<i>Volunteering</i>	<i>A1 C1 L19</i>	<i>FC</i>	<i>I</i>	<i>C</i>	<i>2</i>
						<b>35</b>
1	Genetics II	A1 F4 I7	CC	II	E	4
2	Entomology II	A1 D4 I8	CC	II	E	4
3	Plant pathology II	A1 D4 I9	CC	II	E	4
4	Agrochemistry I	A1 D4 I10	CC	II	E	4
5	Agrotechnics I	A1 D4 I11	CC	II	E	4
6	Rural economy	A1 D4 I12	CC	II	E	3
7	Microbiology	A1 F4 O13	CO	II	C	2
	Soil biology	A1 F4 O13				
						<b>25</b>
8	Practical training (4 weeks)	A1 D4 I14	CC	II	C	5
						<b>30</b>
9	<i>Physical training and sports IV</i>	<i>A1 C4 L17</i>	<i>FC</i>	<i>II</i>	<i>A/R</i>	<i>1</i>
10	<i>English language IV/ French language IV/ German language IV</i>	<i>A1 C4 L18</i>	<i>FC</i>	<i>II</i>	<i>C</i>	<i>2</i>
11	<i>Volunteering</i>	<i>A1 C2 L20</i>	<i>FC</i>	<i>II</i>	<i>C</i>	<i>2</i>
						<b>35</b>
	<b>TOTAL</b>					<b>70</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

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3rd Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Agrochemistry II	A1 D5 I1	CC	I	E	4
2	Agrotechnics II	A1 D5 I2	CC	I	E	4
3	Experimental technique	A1 D5 I3	CC	I	P	4
4	Land reclamation	A1 D5 I4	CC	I	E	4
5	Field crop production I	A1 S5 I5	CC	I	E	4
6	Horticultural technologies I	A1 S5 I6	CC	I	E	6
7	Agricultural land assessment	A1 S5 O13	CO	I	P	4
	Soil erosion control	A1 S5 O13				
						<b>30</b>
8	<i>Volunteering</i>	A1 C1 L19	FC	I	C	2
						<b>32</b>
1	Field crop production II	A1 S6 I7	CC	II	E	4
2	Horticultural technologies II	A1 S6 I8	CC	II	E	3
3	Cultivation of grasslands and fodder plants I	A1 S6 I9	CC	II	E	4
4	Plant breeding and seed production I	A1 S6 I10	CC	II	E	4
5	Accountacy and economic administration	A1 D6 I11	CC	II	E	4
6	Agricultural consulting	A1 D6 I12	CC	II	E	4
7	Sociology	A1 U6 O14	CO	II	C	2
	Human resources management	A1 U6 O14				
						<b>25</b>
8	Practical training (4 weeks)	A1 S6 I15	CC	II	C	5
						<b>30</b>
9	<i>Volunteering</i>	A1 C2 L20	FC	II	C	2
						<b>32</b>
	<b>TOTAL</b>					<b>64</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

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Faculty of Agriculture  
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EQF LEVEL: 6  
Field of study: **Agronomy**

ISCED CODE: **0810**  
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Full-time learning  
Language of teaching: Romanian

4th Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Cultivation of grasslands and fodder plants II	A1 S7 I1	CC	I	E	5
2	Plant breeding and seed production II	A1 S7 I2	CC	I	C	4
3	Conditioning and storage of agricultural products	A1 D7 I3	CC	I	E	5
4	Animal husbandry I	A1 D7 I4	CC	I	E	4
5	Field crop production III	A1 S7 I5	CC	I	E	5
6	Management I	A1 D7 I6	CC	I	E	5
7	Agricultural expertise	A1 U7 O12	CO	I	C	2
	Organic agriculture	A1 U7 O12				
						<b>30</b>
1	Animal husbandry II	A1 D8 I7	CC	II	E	4
2	Field crop production IV	A1 S8 I8	CC	II	E	5
3	Management II	A1 D8 I9	CC	II	C	4
4	Crop irrigation	A1 S8 I10	CC	II	E	4
5	Marketing	A1 D8 I11	CC	II	E	4
6	Cereal and technical crop processing	A1 S8 O13	CO	II	E	3
	Medicinal and aromatic plants	A1 S8 O13				
						<b>24</b>
7	Practical training - diploma project elaboration (4 weeks)	A1 S8 I14	CC	II	C	6
						<b>30</b>
	Diploma exam - defence of diploma project	-		II	E	10
	<b>TOTAL</b>					<b>70</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

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Faculty of Agriculture  
Specialization: Bachelor in **BIOLOGY**  
EQF LEVEL: 6  
Field of study: **Biology**

ISCED CODE: **0511**  
Duration: 3 years, 180 ECTS  
Full-time learning  
Language of teaching: Romanian

1st Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	General chemistry	A5C1I1	CC	I	E	5
2	Mathematics applied to biology	A5C1I2	CC	I	C	4
3	Animal cytology	A5F1I3	CC	I	E	5
4	Human anatomy and hygiene	A5F1I4	CC	I	E	5
5	Biology of invertebrates	A5S1I5	CC	I	E	5
6	Pedology	A5C1O11	CO	I	E	4
	Geology and paleontology	A5C1O11				
7	English language	A5C12O12	CO	I	C	2
	French language	A5C12O12				
						<b>30</b>
8	<i>Physical training and sports</i>	AC12L14	FC	I	A/R	1
9	<i>Computer operating</i>	A5C1L15	FC	I	C	2
10	<i>Volunteering</i>	A5C1L16	FC	I	C	2
						<b>35</b>
1	Animal histology and embryology	A5F2I6	CC	II	E	5
2	Plant morphology and anatomy	A5S2I7	CC	II	E	6
3	Systematic of invertebrates	A5F2I8	CC	II	E	5
4	Biology of vertebrates	A5S2I9	CC	II	E	5
5	Biophysics	A5F2I10	CC	II	C	4
6	English language	A5C12O12	CO	II	C	2
	French language	A5C12O12				
						<b>27</b>
7	Specialised practical training (1 week)	A5S2I13	CC	II	C	3
						<b>30</b>
8	<i>Physical training and sports</i>	AC12L14	FC	II	A/R	1
9	<i>Volunteering</i>	A5C1L16	FC	II	C	2
						<b>33</b>
	<b>TOTAL</b>					<b>68</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected



Faculty of Agriculture  
Specialization: Bachelor in **BIOLOGY**  
EQF LEVEL: 6  
Field of study: **Biology**

ISCED CODE: **0511**  
Duration: 3 years, 180 ECTS  
Full-time learning  
Language of teaching: Romanian

2nd Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Biochemistry	A5F3I1	CC	I	E	4
2	Systematic botany	A5F3I2	CC	I	E	6
3	Comparative anatomy	A5S3I3	CC	I	E	5
4	Systematic of vertebrates	A5F3I4	CC	I	E	5
5	General ecology	A5F3I5	CC	I	E	4
6	General genetics I	A5F3I6	CC	I	E	4
7	English language	A5C34O14	CO	I	C	2
	French language	A5C34O14				
						<b>30</b>
8	<i>Physical training and sports</i>	A5C34L16	FC	I	A/R	1
9	<i>Volunteering</i>	A5C1L17	FC	I	C	2
						<b>33</b>
1	General genetics II	A5F4I7	CC	II	E	4
2	Cell biology	A5F4I8	CC	II	E	4
3	Plant physiology	A5F4I9	CC	II	E	4
4	Animal physiology	A5F4I10	CC	II	E	4
5	Nature conservation	A5C4I11	CC	II	C	3
6	Evolutionism	A5F4I12	CC	II	C	3
7	Soil Biology	A5C4O13	CO	II	C	2
	Experimental technique	A5C4O13				
8	English language	A5C34O14	CO	II	C	2
	French language	A5C34O14				
						<b>26</b>
9	Specialised practical training (2 weeks)	A5S4I15	CC	II	C	4
						<b>30</b>
10	<i>Physical training and sports</i>	A5C34L16	FC	II	A/R	1
11	<i>Volunteering</i>	A5C1L17	FC	II	C	2
						<b>33</b>
	<b>TOTAL</b>					<b>66</b>

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Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected



Faculty of Agriculture  
Specialization: Bachelor in **BIOLOGY**  
EQF LEVEL: 6  
Field of study: **Biology**

ISCED CODE: **0511**  
Duration: 3 years, 180 ECTS  
Full-time learning  
Language of teaching: Romanian

3rd Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Microbiology	A5F5I1	CC	I	E	5
2	Parasitology	A5S5I2	CC	I	E	5
3	Immunology	A5S5I3	CC	I	E	5
4	Entomology	A5S5I4	CC	I	E	5
5	Biology of development	A5S5O8	CO	I	C	4
	Physiology of nutrition and plant development	A5S5O8				
6	Plant genetics	A5S5O9	CO	I	E	4
	Genetic engineering	A5S5O9				
						<b>28</b>
7	Elaboration of bachelor thesis (1 week)	A5S56O14	CO	I	A/R	2
						<b>30</b>
8	Clinical biochemistry	A5S5L15	FC	I	E	4
9	Bioethics	A5C5L16	FC	I	C	2
						<b>36</b>
1	Phytocenology	A5S6I5	CC	II	E	4
2	Plant pathology	A5S6I6	CC	II	E	4
3	Medicinal and aromatic plants	A5C6I7	CC	II	E	4
4	Cereal and technical crop processing	A5C6O10	CO	II	C	4
	Agricultural systems	A5C6O10				
5	Ethology	A5S6O11	CO	II	C	4
	Ornithology	A5S6O11				
6	Hydrobiology	A5S6O12	CO	II	E	4
	Algology	A5S6O12				
						<b>24</b>
7	Practical training for elaboration of bachelor thesis	A5S6O13	CC	II	C	4
8	Elaboration of bachelor thesis (1 week)	A5S56O14	CC	II	A/R	2
						<b>30</b>
9	Collection and conservation of teaching materials	A5C6L17	FC	II	C	4
						<b>34</b>
10	Bachelor's exam			II	E	10
	<b>TOTAL</b>					<b>80</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected



Faculty of Agriculture  
Specialization: Bachelor in **SILVICULTURE**  
EQF LEVEL: 6  
Field of study: **Silviculture**

ISCED CODE: **0821**  
Duration: 4 years, 240 ECTS  
Full-time learning  
Language of teaching: Romanian

1st Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Mathematics	A2 F1 I1	CC	I	E	4
2	Biochemistry	A2 F1 I2	CC	I	C	4
3	Geology and geomorphology	A2 F1 I3	CC	I	C	5
4	Forest meteorology and climatology	A2 F1 I4	CC	I	E	5
5	Botany	A2 F1 I5	CC	I	E	5
6	Topography with elements of geodesy I	A2 F1 I6	CC	I	E	5
7	English language I	A2 C1 O14	CO	I	C	2
	French language I	A2 C1 O14				
	German language I	A2 C1 O14				
						<b>30</b>
8	<i>Physical training and sports I</i>	A2 C1 L17	FC	I	A/R	1
9	<i>Volunteering</i>	A2 C1 L19	FC	I	C	2
						<b>33</b>
1	Biostatistics	A2 F2 I7	CC	II	E	4
2	Forestry computer science elements	A2 F2 I8	CC	II	E	3
3	Pedology I	A2 F2 I9	CC	II	C	4
4	Plant physiology	A2 F2 I10	CC	II	C	3
5	Topography with elements of geodesy II	A2 F2 I11	CC	II	E	3
6	Dendrology I	A2 D2 I12	CC	II	E	4
7	Microbiology	A2 S2 O13	CO	II	C	3
	Zoology	A2 S2 O13				
8	English language II	A2 C2 O15	CO	II	C	2
	French language II	A2 C2 O15				
	German language II	A2 C2 O15				
						<b>26</b>
9	Practical training (3 weeks)	A2 D2 I16	CC	II	C	4
						<b>30</b>
10	<i>Physical training and sports II</i>	A2 C2 L18	FC	II	A/R	1
11	<i>Volunteering</i>	A2 C2 L20	FC	II	C	2
						<b>33</b>
	<b>TOTAL</b>					<b>66</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

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Faculty of Agriculture  
Specialization: Bachelor in **SILVICULTURE**  
EQF LEVEL: 6  
Field of study: **Silviculture**

ISCED CODE: **0821**  
Duration: 4 years, 240 ECTS  
Full-time learning  
Language of teaching: Romanian

2nd Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Mechanics and strength of materials	A2 F3 I1	CC	I	C	3
2	General ecology	A2 F3 I2	CC	I	C	4
3	Forest plant pathology	A2 D3 I3	CC	I	E	5
4	Dendrology II	A2 D3 I4	CC	I	E	5
5	Dendrometry I	A2 D3 I5	CC	I	E	4
6	Pedology II	A2 F3 I6	CC	I	E	4
7	General agriculture	A2 U3 O14	CO	I	C	3
	General machinery course	A2 U3 O14				
8	English language III	A2 C1 O15	CO	I	C	2
	French language III	A2 C1 O15				
	German language III	A2 C1 O15				
						<b>30</b>
9	<i>Physical training and sports III</i>	A2 C3 L17	FC	I	A/R	1
10	<i>Volunteering</i>	A2 C1 L19	FC	I	C	2
						<b>33</b>
1	Cynegetic fauna and species management	A2 D4 I7	CC	II	E	4
2	Forest buildings	A2 D4 I8	CC	II	C	3
3	Forest entomology	A2 D4 I9	CC	II	E	4
4	Forest resorts	A2 D4 I10	CC	II	E	3
5	Genetics and breeding of trees I	A2 F4 I11	CC	II	E	3
6	Dendrometry II	A2 D4 I12	CC	II	E	3
7	Forestry I	A2 D4 I13	CC	II	E	4
8	English language IV	A2 C2 O16	CO	II	C	2
	French language IV	A2 C2 O16				
	German language IV	A2 C2 O16				
						<b>26</b>
9	Practical training (3 weeks)	A2 D4 I16	CC		C	4
						<b>30</b>
10	<i>Physical training and sports III</i>	A2 C4 L18	FC	II	A/R	1
11	<i>Volunteering</i>	A2 C2 L20	FC	II	C	2
						<b>33</b>
						<b>66</b>

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Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected



Faculty of Agriculture  
Specialization: Bachelor in **SILVICULTURE**  
EQF LEVEL: 6  
Field of study: **Silviculture**

ISCED CODE: **0821**  
Duration: 4 years, 240 ECTS  
Full-time learning  
Language of teaching: Romanian

3rd Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Forestry II	A2 D5 I1	CC	I	E	5
2	Forest transports	A2 S5 I2	CC	I	E	5
3	Genetics and breeding of trees II	A2 F5 I3	CC	I	C	4
4	Forestation I	A2 D5 I4	CC	I	E	4
5	Forest arrangement I	A2 D5 I5	CC	I	E	4
6	Forest exploitation I	A2 D5 I6	CC	I	E	4
7	Photogrammetry, teledetection and GIS in forestry	A2 D5 I7	CC	I	C	4
						<b>30</b>
8	<i>Volunteering</i>	A2 C1 L16	FC	I	C	2
						<b>32</b>
1	Forestation II	A2 D6 I8	CC	II	E	4
2	Forest arrangement II	A2 D6 I9	CC	II	E	4
3	Forest exploitation II	A2 D6 I10	CC	II	E	4
4	Mechanization in forestry	A2 S6 I11	CC	II	C	4
5	Torrent control	A2 S6 I12	CC	II	E	4
6	Landscape architecture	A2 S6 I13	CC	II	C	3
7	Etology	A2 S6 O14	CO	II	C	3
	Cadaster	A2 S6 O14				
						<b>26</b>
8	Practical training (3 weeks)	A2 S6 I15	CC	II	C	4
						<b>30</b>
9	<i>Volunteering</i>	A2 C2 L17	FC	II	C	2
						<b>32</b>
	<b>TOTAL</b>					<b>64</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected



Faculty of Agriculture  
Specialization: Bachelor in **SILVICULTURE**  
EQF LEVEL: 6  
Field of study: **Silviculture**

ISCED CODE: **0821**  
Duration: 4 years, 240 ECTS  
Full-time learning  
Language of teaching: Romanian

4th Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Forest improvement	A2 S7 I1	CC	I	E	6
2	Torrent control II	A2 S7 I2	CC	I	E	5
3	Forestry management and forestry economy	A2 D7 I3	CC	I	C	5
4	Trout culture	A2 S7 I4	CC	I	E	5
5	Agroforestry systems	A2 S7 I5	CC	I	E	5
6	Wood processing technology	A2 S7 O10	CO	I	C	4
	Biodiversity conservation and protected areas	A2 S7 O10				
						<b>30</b>
1	Forest products	A2 D8 I6	CC	II	E	4
2	Forestry law and legislation	A2 D8 I7	CC	II	E	4
3	Study of wood	A2 S8 I8	CC	II	C	4
4	Desertification and land degradation control	A2 S8 I9	CC	II	E	5
5	Communication and Public Relations	A2 C8 O11	CO	II	C	3
	Accountancy	A2 C8 O11				
						<b>20</b>
6	Practical training (4 weeks) - Diploma project elaboration	A2 S8 I12	CC	II	C	10
						<b>30</b>
	Defence of diploma project (Diploma exam)			II	E	10
	<b>TOTAL</b>					<b>70</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected



Faculty of Agriculture  
 Specialization: Professional Master's in **PROTECTION OF AGROECOSYSTEMS AND PHYTOSANITARY EXPERTISE**  
 EQF LEVEL: 7  
 Field of study: **Agronomy**

ISCED CODE: **0810**  
 Duration: 2 years, 120 ECTS  
 Full-time learning  
 Language of teaching: Romanian

1st Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Agroecosystem biodiversity	A10 S1 I1	CC	I	C	4
2	Equipment and techniques specific to plant protection laboratories	A10 A1 I2	CC	I	C	4
3	Agroecosystem pathogens	A10 A1 I3	CC	I	E	9
4	Agroecosystem pests	A10 A1 I4	CC	I	E	9
5	Disinfection, disinsection, rodent control	A10 A1 O11	CO	I	C	4
	Machinery and equipment used in the protection of agroecosystems	A10 A1 O12				
						<b>30</b>
1	Agroecosystem pathogen epidemiology	A10 A2 I5	CC	II	E	7
2	Agroecosystem pest epidemiology	A10 A2 I6	CC	II	E	7
3	Agroecosystem pathogen ecology	A10 A2 I7	CC	II	E	4
4	Agroecosystem pest ecology	A10 A2 I8	CC	II	E	4
5	Disease prognosis and warning systems and phytosanitary quarantine	A10 A2 I9	CC	II	E	4
6	Pest prognosis and warning systems and phytosanitary quarantine	A10 A2 I10	CC	II	E	4
						<b>30</b>
	<b>TOTAL</b>					<b>60</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected





Faculty of Agriculture  
Specialization: Professional Master's in **PROTECTION OF AGROECOSYSTEMS AND PHYTOSANITARY EXPERTISE**  
EQF LEVEL: 7  
Field of study: **Agronomy**

ISCED CODE: **0810**  
Duration: 2 years, 120 ECTS  
Full-time learning  
Language of teaching: Romanian

2nd Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Management of integrated control of agroecosystem pathogens	A10 A3 I1	CC	I	E+P	7
2	Management of integrated control of agroecosystem pests	A10 A3 I2	CC	I	E+P	7
3	Management of integrated control of agroecosystem weeds	A10 A3 I3	CC	I	E+P	6
4	Protection of organic agricultural systems	A10 A3 I4	CC	I	C	2
5	Phytopharmacy, ecotoxicology and treatment rationalization	A10 S3 I5	CC	I	E+P	4
6	Legislation in agroecosystem protection	A10 S3 I6	CC	I	E	4
						<b>30</b>
1	Plant resistance to stress factors	A10 A4 I7	CC	II	E	4
2	Disease control and phytosanitary expertise	A10 A4 I8	CC	II	E+P	7
3	Pest control and phytosanitary expertise	A10 A4 I9	CC	II	E+P	7
4	Academic ethics and integrity	A10 S4 I10	CC	II	C	2
5	Practical training and scientific research activity - 7 weeks (2 weeks elaboration of dissertation thesis)	A10 S4 I11	CC	II	C	10
						<b>30</b>
	Defence of dissertation thesis (dissertation exam)			II	E dis.	10
	<b>TOTAL</b>					<b>70</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected



Faculty of Agriculture  
 Specialization: Professional Master's in **SUSTAINABLE AGRICULTURE**  
 EQF LEVEL: 7  
 Field of study: **Agronomy**

ISCED CODE: **0810**  
 Duration: 2 years, 120 ECTS  
 Full-time learning  
 Language of teaching: Romanian

1st Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Agricultural ecosystems	A6 A1 I1	CC	I	P	6
2	Sustainable use of land resources	A6 A1 I2	CC	I	E	5
3	Alternative energy sources in agriculture	A6 A1 I3	CC	I	C	4
4	Environmental protection in agriculture	A6 A1 I4	CC	I	E	5
5	Integrated technologies in crop production I	A6 S1 I5	CC	I	E	6
6	Resources management in agricultural system	A6 S1 O11	CO	I	C	4
	Climate change impact on agriculture	A6 S1 O12				
						<b>30</b>
1	Integrated technologies in crop production II	A6 S2 I6	CC	II	E	6
2	Principles and rules of fertilization	A6 A2 I7	CC	II	E	5
3	Soil tillage systems	A6 A2 I8	CC	II	E	6
4	Agricultural alternative crops	A6 A2 I9	CC	II	C	4
5	Yield formation and evaluation	A6 A2 I10	CC	II	P	5
6	Sustainable development strategies	A6 S2 O13	CO	II	C	4
	Biological material in agricultural plant production	A6 S2 O14				
						<b>30</b>
	<b>TOTAL</b>					<b>60</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected



Faculty of Agriculture  
 Specialization: Professional Master's in **SUSTAINABLE AGRICULTURE**  
 EQF LEVEL: 7  
 Field of study: **Agronomy**

ISCED CODE: **0810**  
 Duration: 2 years, 120 ECTS  
 Full-time learning  
 Language of teaching: Romanian

2nd Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Weed management in sustainable agriculture	A6 A3 I1	CC	I	E	5
2	Disease management in sustainable agriculture	A6 A3 I2	CC	I	E	5
3	Pest management in sustainable agriculture	A6 A3 I3	CC	I	E	5
4	Animal breeding systems in sustainable agriculture	A6 S3 I4	CC	I	E	6
5	Agroforestry and pastoral resources	A6 S4 I5	CC	I	C	3
6	Project development and management	A6 A3 I6	CC	I	P	6
						<b>30</b>
1	Techniques for preserving and processing of the agricultural products	A6 A4 I7	CC	II	E	6
2	Quality and traceability of agricultural products	A6 A4 I8	CC	II	E	6
3	Agribusiness	A6 S4 I9	CC	II	P	6
4	Academic ethics and integrity	A6 S4 I10	CC	II	C	2
5	Practical training and scientific research activity - 7 weeks (2 weeks elaboration of dissertation thesis)	A6 S4 I11	CC	II	C	10
						<b>30</b>
	Defence of dissertation thesis			II	E dis.	10
	<b>TOTAL</b>					<b>70</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected



Faculty of Agriculture  
Specialization: Professional Master's in **PLANT BREEDING  
AND SEED PRODUCTION**  
EQF LEVEL: 7  
Field of study: **Agronomy**

ISCED CODE: **0810**  
Duration: 2 years, 120 ECTS  
Full-time learning  
Language of teaching: Romanian

1st Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Genetic basis of plant breeding	A11 A1 I1	CC	I	E	7
2	Strategies and methods for plant breeding	A11 A1 I2	CC	I	E	7
3	Biostatistics	A11 S1 I3	CC	I	P	5
4	Conservation and use of plant genetic resources	A11 A1 I4	CC	I	E	7
5	Intellectual property rights in plant breeding	A11 S1 O9	CO	I	C	4
	Regulations in the field of seed production	A11 S1 O10				
						<b>30</b>
1	Cell cultures and their use in plant breeding	A11 A2 I5	CC	II	E	7
2	Elements of genetic engineering	A11 A2 I6	CC	II	E	7
3	Plant breeding for specific purposes	A11 A2 I7	CC	II	E	7
4	Fertilization strategies in seed crops	A11 S2 I8	CC	II	E	5
5	Plant-pathogen interaction and molecular defence mechanisms	A11 S2 O11	CO	II	C	4
	Technical elements of seed crop insurance	A11 S2 O12				
						<b>30</b>
	<b>TOTAL</b>					<b>60</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected





Faculty of Agriculture  
Specialization: Professional Master's in **PLANT BREEDING  
AND SEED PRODUCTION**  
EQF LEVEL: 7  
Field of study: **Agronomy**

ISCED CODE: **0810**  
Duration: 2 years, 120 ECTS  
Full-time learning  
Language of teaching: Romanian

2nd Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Methodology and technique of seed production	A11 A3 I1	CC	I	E	7
2	Integrated pest management in seed crops	A11 S3 I2	CC	I	E	5
3	Strategies for weed control in seed crops	A11 S3 I3	CC	I	E	4
4	Post-harvest technology and physiology	A11 S3 I4	CC	I	C	4
5	Operation and use of agricultural machinery in seed crops	A11 S3 I5	CC	I	C	4
6	Seed control and certification I	A11 A3 I6	CC	I	E	6
						<b>30</b>
1	Seed control and certification II	A11 A3 I7	CC	II	E	6
2	Principles and practices of organic farming	A11 S4 I8	CC	II	E	5
3	Yield formation and evaluation	A11 S4 I9	CC	II	E	4
4	Project management	A11 S4 I10	CC	II	P	3
5	Academic ethics and integrity	A11 S4 I11	CC	II	C	2
6	Practical training and scientific research activity - 7 weeks (2 weeks elaboration of dissertation thesis)	A11 S4 I12	CC	II	C	10
						<b>30</b>
	Defence of dissertation thesis			II	E dis.	10
	<b>TOTAL</b>					<b>70</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected



Faculty of Agriculture  
 Specialization: Professional Master's in **AGRICULTURAL CONSULTING**  
 EQF LEVEL: 7  
 Field of study: **Agronomy**

ISCED CODE: **0810**  
 Duration: 2 years, 120 ECTS  
 Full-time learning  
 Language of teaching: Romanian

1st Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Basics of the agricultural consulting	A7 A1 I1	CC	I	E	6
2	Current problems of agriculture and rural environment	A7 S1 I2	CC	I	E	5
3	Management of the natural resources	A7 S1 I3	CC	I	E	5
4	Evaluation of the land resources	A7 A1 I4	CC	I	P	4
5	Advanced agricultural technologies I	A7 A1 I5	CC	I	E	6
6	Technical endowment in agriculture	A7 S1 O11	CO	I	C	4
	Associative forms in agriculture	A7 S1 O12				
						<b>30</b>
1	Advanced agricultural technologies II	A7 A2 I6	CC	II	E	6
2	Working methods in agricultural consulting	A7 A2 I7	CC	II	E	6
3	Risk management in agriculture	A7 S2 I8	CC	II	P	5
4	Farm management	A7 A2 I9	CC	II	E	5
5	Human resource management in agriculture	A7 S2 I10	CC	II	C	4
6	Organic waste management	A7 A2 O13	CO	II	C	4
	Alternative agricultural systems	A7 A2 O14				
						<b>30</b>
	<b>TOTAL</b>					<b>60</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected



Faculty of Agriculture  
 Specialization: Professional Master's in **AGRICULTURAL CONSULTING**  
 EQF LEVEL: 7  
 Field of study: **Agronomy**

ISCED CODE: **0810**  
 Duration: 2 years, 120 ECTS  
 Full-time learning  
 Language of teaching: Romanian

2nd Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Strategies of crop fertilization	A7 A3 I1	CC	I	E	5
2	Integrated pest management	A7 A3 I2	CC	I	E	7
3	Multifunctional exploitation of agro-forestry-pastoral systems	A7 S3 I3	CC	I	E	4
4	Yield formation and evaluation	A7 A3 I4	CC	I	P	4
5	Yield and agricultural product quality management	A7 A3 I5	CC	I	E	4
6	Project development and management	A7 A3 I6	CC	I	P	6
						<b>30</b>
1	Good agriculture practices management	A7 S4 I7	CC	II	C	4
2	Agromarketing methods and techniques	A7 A4 I8	CC	II	P	4
3	Communication strategies in consulting	A7 A4 I9	CC	II	E	5
4	Financing and insurance sources in agriculture	A7 A4 I10	CC	II	E	5
5	Academic ethics and integrity	A7 S4 I11	CC	II	C	2
6	Practical training and scientific research activity - 7 weeks (2 weeks elaboration of dissertation thesis)	A7 S4 I12	CC	II	C	10
						<b>30</b>
7	Defence of dissertation thesis			II	E dis.	10
	<b>TOTAL</b>					<b>70</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected



Faculty of Agriculture  
Specialization: Professional Master's in **LAND RESOURCES  
MANAGEMENT AND EXPERTISE**  
EQF LEVEL: 7  
Field of study: **Agronomy**

ISCED CODE: **0810**  
Duration: 2 years, 120 ECTS  
Full-time learning  
Language of teaching: Romanian

1st Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Soil biology with bases of biopedodiversity	A8 A1 I1	CC	I	E	5
2	Diagnosis of plant nutrition status	A8 A1 I2	CC	I	P	6
3	Soil resource management	A8 A1 I3	CC	I	E	4
4	Pollution in agriculture and chemical protection of crops	A8 A1 I4	CC	I	C	7
5	Modelling in soil science	A8 S12 I5	CC	I	E	4
6	Soil conservation systems	A8 S1 O9	CO	I	E	4
	Precision agriculture	A8 S1 O9				
						<b>30</b>
1	Modelling in soil science	A8 S12 I5	CC	II	E	8
2	Land cadastre and GIS	A8 S2 I6	CC	II	P	4
3	Principles of organic agriculture	A8 A2 I7	CC	II	E	7
4	Agricultural and urban waste management	A8 S2 I8	CC	II	P	7
5	National and European legislation on land resources	A8 S2 O10	CO	II	E	4
	Good agriculture practices management	A8 S2 O10				
						<b>30</b>
	<b>TOTAL</b>					<b>60</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected



Faculty of Agriculture  
Specialization: Professional Master's in **LAND RESOURCES**  
**MANAGEMENT AND EXPERTISE**  
EQF LEVEL: 7  
Field of study: **Agronomy**

ISCED CODE: **0810**  
Duration: 2 years, 120 ECTS  
Full-time learning  
Language of teaching: Romanian

2nd Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Yield formation and evaluation	A8 S3 I11	CC	I	P	5
2	Ecological rehabilitation of degraded soils	A8 A3 I12	CC	I	E	6
3	Technological design in agriculture	A8 A3 I13	CC	I	P	8
4	Project development and management	A8 S3 I14	CC	I	P	5
5	Principles of increasing and maintaining soil fertility	A8 A2 I15	CC	I	E	6
						<b>30</b>
1	Monitoring of environmental factors	A8 S4 I16	CC	II	E	6
2	Evaluation and expertise of land resources	A8 S4 I17	CC	II	P	6
3	Experimental methodology	A8 S4 I18	CC	II	P	6
4	Academic ethics and integrity	A8 S4 I19	CC	II	C	2
5	Practical training and scientific research activity - 7 weeks (2 weeks elaboration of dissertation thesis)	A8 S4 I20	CC	II	C	10
						<b>30</b>
	Defence of dissertation thesis (dissertation exam)			II	E	10
	<b>TOTAL</b>					<b>70</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected



# Faculty of Horticulture





Faculty of Horticulture  
Specialization: Bachelor in **HORTICULTURE**  
EQF LEVEL: 6  
Field of study: **Horticulture**

ISCED CODE: **0810/0812**  
Duration: 4 years, 240 ECTS  
Full-time learning  
Language of teaching: Romanian

1st Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Basics of Horticulture	H061DOU01	CC	I	C	2
2	Mathematics and Informatics	H061DOF01	CC	I	C	4
3	Horticultural botany	H061DOF02	CC	I	E	5
4	Biochemistry	H061DOF03	CC	I	E	5
5	Energetic resources and horticultural machinery	H061DOD01	CC	I	E	2
6	Pedology	H061DOD06	CC	I	E	5
7	Physical education	H061DOC01	CC	I	C	2
8	Foreign languages: English	H061DAC01	CO	I	C	2
	Foreign languages: French					
9	Agrometeorology	H061DOF05	CO	I	E	5
	Biophysics					
						<b>32</b>
10	<i>History of Horticulture</i>	<i>H01DFC05</i>	<i>FC</i>	<i>I</i>	<i>C</i>	<i>2</i>
11	<i>Volunteering</i>	<i>H061DFC02</i>	<i>FC</i>	<i>I</i>	<i>C</i>	<i>1</i>
						<b>35</b>
1	Basics of Horticulture	H061DOU01	CC	II	C	2
2	Horticultural botany	H061DOF02	CC	II	E	4
3	Energetic resources and horticultural machinery	H061DOD01	CC	II	E	4
4	Digital applications in Horticulture	H061DOU03	CC	II	C	2
5	Agrochemistry	H061DOD02	CC	II	E	4
6	Agrophytotechny	H061DOD03	CC	II	E	4
7	Genetics	H061DOF06	CC	II	E	4
8	Physical education	H061DOC01	CC	II	C	2
9	Foreign languages: English	H061DAC01	CO	II	C	2
	Foreign languages: French					
						<b>28</b>
10	Practical training	H061DOD08	CC	II	C	4
						<b>32</b>
11	<i>Volunteering</i>	<i>H061DFC02</i>	<i>FC</i>	<i>II</i>	<i>C</i>	<i>1</i>
						<b>33</b>
	<b>TOTAL</b>					<b>68</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected



Faculty of Horticulture  
Specialization: Bachelor in **HORTICULTURE**  
EQF LEVEL: 6  
Field of study: **Horticulture**

ISCED CODE: **0810/0812**  
Duration: 4 years, 240 ECTS  
Full-time learning  
Language of teaching: Romanian

2nd Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Plant physiology	H062DOF01	CC	I	E	5
2	Entomology	H062DOD01	CC	I	E	2
3	Phytopathology	H062DOD02	CC	I	E	5
4	Topography	H062DOF03	CC	I	C	2
5	Ornamental arboriculture	H062DOD04	CC	I	E	5
6	Floriculture	H062DOD05	CC	I	E	5
7	Experimental technique	H062DOD06	CC	I	C	2
8	Ecology and environmental protection	H062DOF03	CC	I	C	2
9	Physical education	H062DOC02	CC	I	C	2
10	Foreign languages: English	H062DAC01	CO	I	C	2
	Foreign languages: French					
						<b>32</b>
11	<i>Volunteering</i>	<i>H062DFC02</i>	<i>FC</i>	<i>I</i>	<i>C</i>	<i>1</i>
						<b>33</b>
1	Plant physiology	H062DOF01	CC	II	E	4
2	Entomology	H062DOD01	CC	II	E	4
3	Phytopathology	H062DOD02	CC	II	E	2
4	Accountancy	H062DOU01	CC	II	C	4
5	Ornamental arboriculture	H062DOD04	CC	II	E	4
6	Floriculture	H062DOD05	CC	II	E	6
7	Physical education	H062DOC02	CC	II	C	2
8	Foreign languages: English	H062DAC01	CO	II	C	2
	Foreign languages: French					
						<b>28</b>
9	Practical training	H062DOS01	CC	II	C	4
						<b>32</b>
10	<i>Permaculture</i>	<i>H062DFD01</i>	<i>FC</i>	<i>II</i>	<i>C</i>	<i>4</i>
11	<i>Volunteering</i>	<i>H062DFC02</i>	<i>FC</i>	<i>II</i>	<i>C</i>	<i>1</i>
						<b>37</b>
	<b>TOTAL</b>					<b>70</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected





Faculty of Horticulture  
Specialization: Bachelor in **HORTICULTURE**  
EQF LEVEL: 6  
Field of study: **Horticulture**

ISCED CODE: **0810/0812**  
Duration: 4 years, 240 ECTS  
Full-time learning  
Language of teaching: Romanian

3rd Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	General vegetable growing	H063DOD01	CC	I	E	5
2	General fruit growing	H063DOD02	CC	I	E	5
3	General viticulture	H063DOD03	CC	I	E	5
4	Landscape architecture	H063DOS01	CC	I	E	4
5	Horticultural plants micropropagation	H063DOS03	CC	I	C	4
6	Ampelography	H063DOS02	CC	I	C	2
7	Marketing	H063DOD05	CC	I	C	2
8	Agricultural communitarian policy	H063DOU01	CC	I	C	3
						<b>30</b>
9	<i>Lawns</i>	<i>H063DFS01</i>	<i>FC</i>	<i>I</i>	<i>C</i>	<i>2</i>
10	<i>Volunteering</i>	<i>H063DFC04</i>	<i>FC</i>	<i>I</i>	<i>C</i>	<i>1</i>
						<b>33</b>
1	General vegetable growing	H063DOD01	CC	II	E	4
2	General fruit growing	H063DOD02	CC	II	E	4
3	General viticulture	H063DOD03	CC	II	E,P	5
4	Ampelography	H063DOS02	CC	II	E	4
5	Land reclamation	H063DOD04	CC	II	C	3
6	Floral art	H063DOS04	CC	II	C	3
7	Methodology for elaborating Diploma Project	H063DOU02	CC	II	C	1
8	Legislation	H063DAU03	CO	II	C	2
	Sociology					
						<b>26</b>
9	Practical training	H063DOS05	CC	II	C	4
						<b>30</b>
10	<i>Tropical Horticulture</i>	<i>H063DFC03</i>	<i>FC</i>	<i>II</i>	<i>C</i>	<i>2</i>
11	<i>Volunteering</i>	<i>H063DFC04</i>	<i>FC</i>	<i>II</i>	<i>C</i>	<i>1</i>
						<b>33</b>
	<b>TOTAL</b>					<b>66</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected



Faculty of Horticulture  
Specialization: Bachelor in **HORTICULTURE**  
EQF LEVEL: 6  
Field of study: **Horticulture**

ISCED CODE: **0810/0812**  
Duration: 4 years, 240 ECTS  
Full-time learning  
Language of teaching: Romanian

4th Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Oenology	H064DOS01	CC	I	E	5
2	Technology of horticultural products	H064DOS02	CC	I	E	5
3	Special vegetable growing	H064DOS03	CC	I	E	5
4	Pomology	H064DOS04	CC	I	E	4
5	Horticultural plant breeding	H064DOD01	CC	I	C	2
6	Management	H064DOD02	CC	I	E	4
7	Soiless horticultural crops	H064DOU01	CC	I	C	3
8	Insurances and reinsurances	H064DOU02	FC	I	C	3
9	Quality management of horticultural products	H064DOU03	CO	I	C	2
	Plant material production	H4.9				
						<b>33</b>
10	General zootechnics	H4.10	FC	I	C	2
11	Management of landscape arrangements	H064DFS02	FC	I	C	2
						<b>37</b>
1	Oenology	H064DOS01	CC	II	E	5
2	Technology of horticultural products	H064DOS02	CC	II	E	5
3	Special vegetable growing	H064DOS03	CC	II	E,P	5
4	Pomology	H064DOS04	CC	II	E,P	6
5	Horticultural plant breeding	H064DOD01	CC	II	E	4
6	Molecular techniques	H064DOU02	CC	II	C	3
						<b>28</b>
7	Practical training	H064DOS08	CC	II	C	2
						<b>30</b>
	<b>TOTAL</b>					<b>67</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected



Faculty of Horticulture  
Specialization: Bachelor in **LANDSCAPE ARCHITECTURE**  
EQF LEVEL: 6  
Field of study: **Horticulture**

ISCED CODE: **0812**  
Duration: 4 years, 240 ECTS  
Full-time learning  
Language of teaching: Romanian

1st Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Descriptive geometry and Perspective	HP.1.1.DI.DF	CC	I	E	5
2	Botany	HP.1.2.DI.DF	CC	I	E	5
3	Plant physiology	HP.1.3.DI.DF	CC	I	E	2
4	Drawing and graphic representations	HP.1.6.DI.DF	CC	I	P	6
5	Landscape architecture	HP.1.8.DI.DD	CC	I	P	10
6	Physical education*	HP.1.9.DI.DC	CC	I	C	2
7	Foreign languages: English	HP.1.11.DO.DC	CO	I	C	2
	Foreign languages: French					
						<b>32</b>
8	<i>Graphic, written and oral communication</i>	<i>HP.1.12.DF.DC</i>	<i>FC</i>	<i>I</i>	<i>PV</i>	3
9	<i>Volunteering</i>	<i>HP.1.14.DF.DC</i>	<i>FC</i>	<i>I</i>	<i>PV</i>	2
						<b>37</b>
1	Botany	HP.1.2.DI.DF	CC	II	E	2
2	Pedology	HP.1.4.DI.DF	CC	II	E	3
3	Mathematics	HP.1.5.DI.DF	CC	II	E	3
4	Drawing and graphic representations	HP.1.6.DI.DF	CC	II	C	3
5	Landscape geography	HP.1.7.DI.DF	CC	II	E	3
6	Landscape architecture	HP.1.8.DI.DD	CC	II	P	10
7	Physical education*	HP.1.9.DI.DC	CC	II	C	2
8	Foreign languages: English	HP.1.11.DO.DC	CO	II	C	2
	Foreign languages: French					
						<b>28</b>
9	Practical training	HP.1.10.DI.DD	CC	II	C	4
						<b>32</b>
10	<i>Alternative techniques: models and photography</i>	<i>HP.1.13.DF.DS</i>	<i>FC</i>	<i>II</i>	<i>PV</i>	3
11	<i>Volunteering</i>	<i>HP.1.14.DF.DC</i>	<i>FC</i>	<i>II</i>	<i>PV</i>	2
						<b>37</b>
	<b>TOTAL</b>					<b>74</b>

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PV=Periodic verification

\*Additional credit course



Faculty of Horticulture  
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Field of study: **Horticulture**

ISCED CODE: **0812**  
Duration: 4 years, 240 ECTS  
Full-time learning  
Language of teaching: Romanian

2nd Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Dendrology	HP.2.1.DI.DF	CC	I	E	4
2	Topography and Cadastre	HP.2.2.DI.DF	CC	I	E	3
3	Gardens and landscapes history	HP.2.3.DI.DF	CC	I	E	4
4	Landscape building materials	HP.2.4.DI.DS	CC	I	E	4
5	Landscape design	HP.2.5.DI.DS	CC	I	P	6
6	Design in landscape architecture	HP.2.6.DI.DS	CC	I	P	4
7	History of art, architecture and the city	HP.2.7.DI.DU	CC	I	E	3
8	Physical education*	HP.2.8.DI.DC	CC	I	C	2
9	Foreign languages: English	HP.2.11.DO.DC	CO	I	C	2
	Foreign languages: French					
						<b>32</b>
10	<i>Aesthetics and landscape theory</i>	<i>HP.2.12.DF.DS</i>	<i>FC</i>	<i>I</i>	<i>PV</i>	3
11	<i>Volunteering</i>	<i>HP.2.14.DF.DC</i>	<i>FC</i>	<i>I</i>	<i>PV</i>	2
						<b>37</b>
1	Dendrology	HP.2.1.DI.DF	CC	II	E	3
2	Gardens and landscapes history	HP.2.3.DI.DF	CC	II	E	3
3	Construction materials and landscape constructions	HP.2.4.DI.DS	CC	II	E	3
4	Landscape design	HP.2.5.DI.DS	CC	II	P	6
5	Design in landscape architecture	HP.2.6.DI.DS	CC	II	P	4
6	History of art, architecture and the city	HP.2.7.DI.DU	CC	II	E	3
7	Physical education*	HP.2.8.DI.DC	CC	II	C	2
8	Sociology	HP.2.10.DI.DU	CO	II	E	2
	Anthropology					
9	Foreign languages: English	HP.2.11.DO.DC	CO	II	C	2
	Foreign languages: French					
						<b>28</b>
10	Practical training	HP.2.9.DI.DD	CC	II	C	4
						<b>32</b>
11	<i>Architectural design</i>	<i>HP.2.13.DF.DS</i>	<i>FC</i>	<i>II</i>	<i>PV</i>	4
12	<i>Volunteering</i>	<i>HP.2.14.DF.DC</i>	<i>FC</i>	<i>II</i>	<i>PV</i>	2
						<b>38</b>
	<b>TOTAL</b>					<b>75</b>

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Faculty of Horticulture  
Specialization: Bachelor in **LANDSCAPE ARCHITECTURE**  
EQF LEVEL: 6  
Field of study: **Horticulture**

ISCED CODE: **0812**  
Duration: 4 years, 240 ECTS  
Full-time learning  
Language of teaching: Romanian

3rd Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Ecology and Geobotany	HP.3.1.DI.DF	CC	I	E	3
2	Floriculture	HP.3.2.DI.DD	CC	I	E	4
3	Arboriculture	HP.3.3.DI.DD	CC	I	E	5
4	Fruit Growing and Viticulture	HP.3.4.DI.DD	CC	I	E	3
5	Landscape work technique	HP.3.6.DI.DS	CC	I	P	4
6	Urbanism and land use	HP.3.7.DI.DS	CC	I	E	5
7	Land use planning and urban landscape	HP.3.8.DI.DS	CC	I	P	4
8	CAD	HP.3.12.DO.DS	CO	I	C	2
	GIS					
						<b>30</b>
9	<i>Legislation in the field</i>	<i>HP.3.13.DF.DC</i>	<i>FC</i>	<i>I</i>	<i>PV</i>	3
10	<i>Volunteering</i>	<i>HP.3.15.DF.DC</i>	<i>FC</i>	<i>I</i>	<i>PV</i>	2
						<b>35</b>
1	Ecology and Geobotany	HP.3.1.DI.DF	CC	II	E	2
2	Plant compositions in landscape design	HP.3.5.DI.DS	CC	II	E	5
3	Landscape work technique	HP.3.6.DI.DS	CC	II	E	3
4	Urbanism and land use	HP.3.7.DI.DS	CC	II	E	4
5	Land use planning and urban landscape	HP.3.8.DI.DS	CC	II	P	4
6	Landscape restoration and rehabilitation	HP.3.9.DI.DS	CC	II	P	4
7	Lawns and meadows	HP.3.10.DI.DS	CC	II	C	2
8	CAD	HP.3.12.DO.DS	CO	II	C	2
	GIS					
						<b>26</b>
9	Practice training	HP.3.11.DI.DS	CC	II	C	4
						<b>30</b>
10	<i>Indoor plants</i>	<i>HP.3.14.DF.DD</i>	<i>FC</i>	<i>II</i>	<i>PV</i>	3
11	<i>Volunteering</i>	<i>HP.3.15.DF.DC</i>	<i>FC</i>	<i>II</i>	<i>PV</i>	2
						<b>35</b>
	<b>TOTAL</b>					<b>70</b>

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Faculty of Horticulture  
Specialization: Bachelor in **LANDSCAPE ARCHITECTURE**  
EQF LEVEL: 6  
Field of study: **Horticulture**

ISCED CODE: **0812**  
Duration: 4 years, 240 ECTS  
Full-time learning  
Language of teaching: Romanian

4th Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Vegetable farming	HP.4.1.DI.DD	CC	I	E	5
2	Land reclamation	HP.4.2.DI.DD	CC	I	P	9
3	Management	HP.4.3.DI.DD	CC	I	E	4
4	Entomology and Phytopathology	HP.4.6.DI.DD	CC	I	E	3
5	Rural landscape planning	HP.4.12.DO.DU	CO	I	P	9
	Metropolitan green infrastructure					
						<b>30</b>
6	<i>Human and urban security</i>	<i>HP.4.13.DF.DC</i>	<i>FC</i>	<i>I</i>	<i>PV</i>	3
7	<i>Rural tourism and ecotourism</i>	<i>HP.4.14.DF.DC</i>	<i>FC</i>	<i>I</i>	<i>PV</i>	3
8	<i>Volunteering</i>	<i>HP.4.15.DF.DC</i>	<i>FC</i>	<i>I</i>	<i>PV</i>	2
						<b>38</b>
1	Land reclamation	HP.4.2.DI.DD	CC	II	E	4
2	Marketing	HP.4.4.DI.DD	CC	II	C	3
3	Floral art	HP.4.5.DI.DD	CC	II	E	5
4	Entomology and Phytopathology	HP.4.6.DI.DD	CC	II	E	2
5	Urban landscape management	HP.4.7.DI.DS	CC	II	E	3
6	Plants for green terraces and green walls	HP.4.8.DI.DU	CC	II	P	3
7	Silviculture	HP.4.9.DI.DU	CC	II	P	3
8	Elaborating the Diploma Project	HP.4.10.DI.DU	CC	II	C	1
						<b>24</b>
9	Practice training	HP.4.11.DI.DS	CC	II	C	6
						<b>30</b>
10	<i>Volunteering</i>	<i>HP.4.15.DF.DC</i>	<i>FC</i>	<i>II</i>	<i>PV</i>	2
						<b>32</b>
	<b>TOTAL</b>					<b>70</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course; \*Additional credit course

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Faculty of Horticulture  
 Specialization: Master's in **BIODIVERSITY CONSERVATION  
 MANAGEMENT**  
 EQF LEVEL: 7  
 Field of study: **Horticulture**

ISCED CODE: **0812**  
 Duration: 2 years, 120 ECTS  
 Full-time learning  
 Language of teaching: Romanian

1st Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Phytosociology and phytogeography	H591DOF03	CC	I	E	5
2	Biotic and abiotic stress in plants	H591DOF04	CC	I	E	5
3	Modern techniques for evaluation of biodiversity assessment	H591DOS07	CC	I	E	6
4	Biodiversity conservation of horticultural species	H591DOS08	CC	I	E	5
5	Environmental and landscape management	H591DOS09	CC	I	C	5
6	Dynamics of natural ecosystems	H591DAC02	CO	I	C	4
	Diversity of animal species					
						<b>30</b>
1	Phytosociology and phytogeography	H591DOF03	CC	II	E	5
2	Biotic and abiotic stress in plants	H591DOF04	CC	II	E	5
3	Biodiversity conservation of horticultural species	H591DOS08	CC	II	E	5
4	Useful substances from plants	H591DOS10	CC	II	C	5
5	Protected areas	H591DOS11	CC	II	E	5
6	Identification and propagation of valuable genotypes	H591DOS12	CC	II	C	5
						<b>30</b>
	<b>TOTAL</b>					<b>60</b>

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Faculty of Horticulture  
 Specialization: Master's in **BIODIVERSITY CONSERVATION  
 MANAGEMENT**  
 EQF LEVEL: 7  
 Field of study: **Horticulture**

ISCED CODE: **0812**  
 Duration: 2 years, 120 ECTS  
 Full-time learning  
 Language of teaching: Romanian

2nd Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Biodiversity conservation of horticultural species	H592DOS08	CC	I	E	7
2	Permaculture	H592DOS09	CC	I	E	5
3	Management of crop systems in sustainable agriculture	H592DOS10	CC	I	E	6
4	Legislation in biodiversity conservation	H592DOS11	CC	I	C	6
5	Ethics and academic integrity	H592DOC01	CC	I	C	2
6	Biodiversity and society	H592DAC02	CO	I	C	4
	Project management	H592DAC02				
						<b>30</b>
1	Applied statistics for biodiversity research	H592DOC02	CC	II	C	5
2	Practical training *2weeks	H592DOS12	CC	II	C	5
3	Scientific research *6weeks	H592DOS13	CC	II	C	10
4	Elaboration of thesis *4weeks	H592DOS14	CC	II	C	10
						<b>30</b>
	<b>TOTAL</b>					<b>60</b>

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Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected





Faculty of Horticulture  
 Specialization: Master's in **ORGANIC HORTICULTURE**  
 EQF LEVEL: 7  
 Field of study: **Horticulture**

ISCED CODE: **0812**  
 Duration: 2 years, 120 ECTS  
 Full-time learning  
 Language of teaching: Romanian

1st Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Technical systems for organic horticulture	H661DOF01	CC	I	E	7
2	Organic fruit growing	H661DOS01	CC	I	E	7
3	Organic vegetable growing	H661DOS02	CC	I	E	7
4	European and national legislation in organic horticulture	H661DOF02	CC	I	C	4
5	Conversion, certification and inspection of organic farms	H661DOF03	CC	I	C	5
						<b>30</b>
1	Special Ecophysiology	H661DOS03	CC	II	E	7
2	Medicinal and aromatic plants, cultivated and from spontaneous flora	H661DOS04	CC	II	E	7
3	Edible ornamentals grown organically	H661DOS05	CC	II	E	7
4	Ethics and academic integrity	H661DOC01	CC	II	C	4
5	Project management in organic farms	H661DAC03	CO	II	C	5
	Agricultural policies in the field of ecological agriculture					
						<b>30</b>
	<b>TOTAL</b>					<b>60</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected



Faculty of Horticulture  
 Specialization: Master's in **ORGANIC HORTICULTURE**  
 EQF LEVEL: 7  
 Field of study: **Horticulture**

ISCED CODE: **0812**  
 Duration: 2 years, 120 ECTS  
 Full-time learning  
 Language of teaching: Romanian

2nd Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Organic viticulture	H662DOS01	CC	I	E	7
2	Processing technologies of organic horticultural products	H662DOS02	CC	I	E	6
3	Organic germplasm sources	H662DOS03	CC	I	E	7
4	Biointensive cultivation systems in organic horticulture	H662DOS04	CC	I	E	6
5	Entrepreneurship and business management in organic horticulture	H662DAC03	CO	I	P	4
	Eco concept in urban and periurban landscape					
						<b>30</b>
1	Ecological protection of horticultural plants	H662DOS08	CC	II	C	5
2	Practical training	H662DOS05	CC	II	C	5
3	Scientific research	H662DOS06	CC	II	C	10
4	Elaboration of thesis	H662DOS07	CC	II	C	10
						<b>30</b>
						<b>60</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected



Faculty of Horticulture  
 Specialization: Master's in **HORTICULTURAL INTEGRATED  
 TECHNOLOGIES FOR VALUE ADDED PRODUCTS**  
 EQF LEVEL: 7  
 Field of study: **Horticulture**

ISCED CODE: **0812**  
 Duration: 2 years, 120 ECTS  
 Full-time learning  
 Language of teaching: Romanian

1st Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	European policy on procurement, certification and enhancement of horticultural products	H571DOF01	CC	I	C	2
2	Implementation of integrated quality management in horticulture	H571DOF02	CC	I	C	4
3	Quality standards for horticultural products	H571DOF03	CC	I	C	5
4	Integrated horticulture and ecosystem protection	H571DOS01	CC	I	E	6
5	Horticultural seedlings quality control	H571DOS03	CC	I	E	7
6	Integrated of technologies in vegetable crops	H571DOS04	CC	I	E	6
						<b>30</b>
1	Integrated horticulture and ecosystem protection	H571DOS01	CC	II	E	6
2	Pollution prevention and control of horticultural products	H571DOS02	CC	II	C	6
3	Horticultural seedlings quality control	H571DOS03	CC	II	E	7
4	Integration of technologies in vegetable crops	H571DOS04	CC	II	E	7
5	Project Management	H571DAC01	CO	II	C	4
	Legislation horticultural product quality and environmental protection					
						<b>30</b>
						<b>60</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected



Faculty of Horticulture  
 Specialization: Master's in **HORTICULTURAL INTEGRATED  
 TECHNOLOGIES FOR VALUE ADDED PRODUCTS**  
 EQF LEVEL: 7  
 Field of study: **Horticulture**

ISCED CODE: **0812**  
 Duration: 2 years, 120 ECTS  
 Full-time learning  
 Language of teaching: Romanian

2nd Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Integrated technologies in orchards	H572DOS05	CC	I	E	6
2	Integrated technologies in vineyards	H572DOS06	CC	I	E	8
3	Integrated technologies in floricultural crops	H572DOS07	CC	I	E	7
4	Integrated technologies in ornamental arboriculture	H572DOS08	CC	I	E	6
5	Ethics and academic integrity	H572DOC01	CC	I	C	3
						<b>30</b>
6	<i>Entrepreneurship for indoor crops</i>	<i>H572DAC02</i>	<i>FC</i>	<i>I</i>	<i>C</i>	4
						<b>34</b>
1	Practical training	H572DOS09	CC	II	C	7
2	Scientific research	H572DOS10	CC	II	C	7
3	Elaboration of thesis	H572DOS11	CC	II	C	10
4	Management of horticultural farms	H572DAC01	CO	II	E	6
	Marketing of horticultural products					
						<b>30</b>
	<b>TOTAL</b>					<b>64</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected



Faculty of Horticulture  
Specialization: Master's in **ADVANCED TECHNOLOGIES, MANAGEMENT AND MARKETING IN VITICULTURE AND OENOLOGY**  
EQF LEVEL: 7  
Field of study: **Horticulture**

ISCED CODE: **0812**  
Duration: 2 years, 120 ECTS  
Full-time learning  
Language of teaching: Romanian

1st Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Chemistry and sensory analysis of wines	H60 1 DOF 01	CC	I	E	8
2	Modern winemaking technologies	H60 1 DOF 02	CC	I	E	7
3	Microbiology, hygiene and quality în winemarketing	H60 1 DOS 03	CC	I	E	6
4	Management of the vine and wine company	H60 1 DOS 04	CC	I	C	4
5	Total quality management on the vine and wine sector	H60 1 DOS 09	CC	I	C	5
						<b>30</b>
1	The concept of "terroir" in viticulture	H60 1 DOS 05	CC	II	E	5
2	Theoretical and practical aspects of wine stabilization and conditioning	H60 1 DOS 06	CC	II	E	8
3	Alternative principles and techniques for the cultivation of grapevine	H60 1 DOS 18	CO	I	E	5
4	Ethics and academic integrity	H60 1 DOC 02	CC	II	E	2
5	Project management	H60 1 DOC 01	CC	II	C	4
6	Experimental technique and statistical analysis	H60 1 DOS 17	CC	II	C	6
						<b>30</b>
<b>TOTAL</b>						<b>60</b>

2nd Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Aspects of the storage, packaging and labeling of wines	H60 2 DOS 11	CC	I	E	7
2	Wine presentation technique and standardized and sensory analysis	H60 2 DOS 12	CC	I	C	7
3	Organisation of wine business	H60 2 DOS 13	CC	I	E	5
4	Wine, culture, nutrition, health and tourism	H60 2 DOS 14	CC	I	E	7
5	Strategies for the communication and promoting the image of wine	H60 2 DOS 15	CC	I	C	4
						<b>30</b>
1	Vine and wine legislation	H60 2 DOC 05	CC	II	E	4
2	Experimenting techniques and statistical analysis	H60 2 DOS 17	CC	II	C	6
3	Practical training	H60 2 DOS 18	CC	II	C	5
4	Scientifical research/Elaboration of thesis	H60 2 DOS 19	CC	II	P	15
						<b>30</b>
<b>TOTAL</b>						<b>60</b>



# **Faculty of Animal Productions Engineering and Management**





Faculty of Animal Productions Engineering and Management  
 Specialization: Bachelor in **GASTRONOMIC SCIENCES**  
 EQF LEVEL: 6  
 Field of study: **Applied engineering sciences**

ISCED CODE: **0721**  
 Duration: 4 years, 240 ECTS  
 Full-time learning  
 Language of teaching: Romanian

1st Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Special Mathematics	SG01F1.2	CC	I	E	5
2	Physics	SG03F1.0	CC	I	E	4
3	Biology	SG05F1.2	CC	I	E	6
4	Chemistry	SG06F1.2	CC	I	E	6
5	History of gastronomy	SG07D0.2	CC	I	E	3
6	Physical training and sport	SG09C1.2	CC	I	C	3
7	English	SG10C1.2	CC	I	C	3
						<b>30</b>
8	<i>French</i>	<i>SG12C1.2</i>	<i>FC</i>	<i>I</i>	<i>C</i>	3
9	<i>German</i>	<i>SG13C1.2</i>	<i>FC</i>	<i>I</i>	<i>C</i>	3
10	<i>Psychology of human nutrition</i>	<i>SG14C1.0</i>	<i>FC</i>	<i>I</i>	<i>C</i>	4
						<b>40</b>
1	Special Mathematics	SG01F1.2	CC	II	E	3
2	Probability theory and mathematical statistics	SG02F0.2	CC	II	E	3
3	Applied computer science	SG04F1.0	CC	II	E	3
4	Biology	SG05F1.2	CC	II	E	4
5	Chemistry	SG06F1.2	CC	II	E	4
6	Applied computer graphics	SG08F0.2	CC	II	C	3
7	Physical training and sport	SG09C1.2	CC	II	C	3
8	English	SG10C1.2	CC	II	C	3
						<b>26</b>
9	Field practical training	SG11D0.2	CC	II	C	4
						<b>30</b>
9	<i>French</i>	<i>SG12C1.2</i>	<i>FC</i>	<i>II</i>	<i>C</i>	3
10	<i>German</i>	<i>SG13C1.2</i>	<i>FC</i>	<i>II</i>	<i>C</i>	3
11	<i>European culture and civilization</i>	<i>SG15C0.2</i>	<i>FC</i>	<i>II</i>	<i>C</i>	3
						<b>39</b>
	<b>TOTAL</b>					<b>79</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Addmitted/Rejected



Faculty of Animal Productions Engineering and Management  
 Specialization: Bachelor in **GASTRONOMIC SCIENCES**  
 EQF LEVEL: 6  
 Field of study: **Applied engineering sciences**

ISCED CODE: **0721**  
 Duration: 4 years, 240 ECTS  
 Full-time learning  
 Language of teaching: Romanian

2nd Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	The basics of gastronomy	SG01D3.4	CC	I	E	5
2	General microbiology	SG02D3.0	CC	I	E	4
3	Food chemistry	SG04D3.0	CC	I	E	4
4	Consumer behaviour	SG05D3.0	CC	I	C	3
5	Fundamental techniques and processes in gastronomy	SG07D3.4	CC	I	E	5
6	Physico-chemical principles of obtaining culinary products	SG09D3.4	CC	I	C	3
7	English	SG10C3.4	CC	I	C	3
8	Gastronomic aesthetics	SG12.1S3.0	CO	I	C	3
	Aesthetics of culinary and pastry-confectionery products	SG12.1S3.0				
						<b>30</b>
9	<i>French</i>	<i>SG13C3.4</i>	<i>FC</i>	<i>I</i>	<i>C</i>	<i>3</i>
10	<i>German</i>	<i>SG14C3.4</i>	<i>FC</i>	<i>I</i>	<i>C</i>	<i>3</i>
11	<i>Geography of tourism</i>	<i>SG15C3.0</i>	<i>FC</i>	<i>I</i>	<i>C</i>	<i>3</i>
						<b>39</b>
1	The basics of gastronomy	SG01D3.4	CC	II	E	4
2	Special microbiology	SG03S0.4	CC	II	E	3
3	Equipment used in gastronomy	SG06D0.4	CC	II	E	4
4	Fundamental techniques and processes in gastronomy	SG07D3.4	CC	II	E	3
5	Legislation for public food	SG08D0.4	CC	II	C	3
6	Physico-chemical principles of obtaining culinary products	SG09D3.4	CC	II	C	3
7	English	SG10C3.4	CC	II	C	3
8	Field practical training	SG11D3.4	CC	II	C	4
9	Molecular gastronomy	SG12.2S0.4	CO	II	C	3
	Sustainable gastronomy	SG12.2S0.4				
						<b>30</b>
10	<i>French</i>	<i>SG13C3.4</i>	<i>FC</i>	<i>II</i>	<i>C</i>	<i>3</i>
11	<i>German</i>	<i>SG14C3.4</i>	<i>FC</i>	<i>II</i>	<i>C</i>	<i>3</i>
12	<i>Romanian culture and civilization</i>	<i>SG16C0.4</i>	<i>FC</i>	<i>II</i>	<i>C</i>	<i>3</i>
						<b>39</b>
	<b>TOTAL</b>					<b>78</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected





Faculty of Animal Productions Engineering and Management  
 Specialization: Bachelor in **GASTRONOMIC SCIENCES**  
 EQF LEVEL: 6  
 Field of study: **Applied engineering sciences**

ISCED CODE: **0721**  
 Duration: 4 years, 240 ECTS  
 Full-time learning  
 Language of teaching: Romanian

3rd Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Additives and ingredients in gastronomy	SG01D5.0	CC	I	E	4
2	Agrifood raw materials in gastronomy	SG02D5.0	CC	I	C	4
3	Sensorial analysis	SG03D5.0	CC	I	C	4
4	The technology of obtaining culinary products	SG06S5.0	CC	I	E	4
5	The technology of obtaining bakery products, pasta and biscuits	SG07S5.0	CC	I	E	6
6	International gastronomy	SG10S5.6	CC	I	E	4
7	Organizational administration	SG12.1S5.0	CO	I	C	4
	Entrepreneurship in gastronomy	SG12.1S5.0				
						<b>30</b>
8	<i>Rural tourism and ecotourism</i>	<i>SG13C5.0</i>	<i>FC</i>	<i>I</i>	<i>C</i>	4
9	<i>English</i>	<i>SG15C5.6</i>	<i>FC</i>	<i>I</i>	<i>C</i>	3
						<b>37</b>
1	Food inocuity	SG04D0.6	CC	II	E	4
2	Dietetics	SG05D0.6	CC	II	E	4
3	The technology of obtaining pastry-confectionery products	SG08S0.6	CC	II	E	6
4	Traditional gastronomy	SG09S0.6	CC	II	C	4
5	International gastronomy	SG10S5.6	CC	II	E	4
6	Field specialized training	SG11S0.6	CC	II	C	4
7	Communication	SG12.2C0.6	CO	II	C	4
	Ethics and academic integrity	SG12.2C0.6				
						<b>30</b>
8	<i>Food allergies and intolerances</i>	<i>SG14S0.6</i>	<i>FC</i>	<i>II</i>	<i>C</i>	4
9	<i>English</i>	<i>SG15C5.6</i>	<i>FC</i>	<i>II</i>	<i>C</i>	3
						<b>37</b>
	<b>TOTAL</b>					<b>67</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected



Faculty of Animal Productions Engineering and Management  
 Specialization: Bachelor in **GASTRONOMIC SCIENCES**  
 EQF LEVEL: 6  
 Field of study: **Applied engineering sciences**

ISCED CODE: **0721**  
 Duration: 4 years, 240 ECTS  
 Full-time learning  
 Language of teaching: Romanian

4th Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Technology of catering products	SG01S7.0	CC	I	E	4
2	Occupational hygiene and safety in public catering establishments	SG03S7.0	CC	I	E	4
3	Hospitality management	SG04S7.8	CC	I	E	5
4	Food styles	SG08S7.0	CC	I	C	3
5	Design of protocol events and services	SG09S7.0	CC	I	E	5
6	Planning and design of culinary spaces	SG10S7.0	CC	I	E	5
7	Pairing culinary products with wines and other beverages	SG13S7.0	CO	I	C	4
	Innovation and creativity in gastronomy					
						<b>30</b>
8	<i>Organization of public catering and tourism units</i>	<i>SG14S7.0</i>	<i>FC</i>	<i>I</i>	<i>C</i>	<i>4</i>
9	<i>English</i>	<i>SG16C7.8</i>	<i>FC</i>	<i>I</i>	<i>C</i>	<i>3</i>
						<b>37</b>
1	Food safety and quality control	SG02S0.8	CC	II	E	4
2	Hospitality management	SG04S7.8	CC	II	E	4
3	Basis of accounting	SG05D0.8	CC	II	C	4
4	Marketing of services	SG06S0.8	CC	II	E	4
5	Serving technique	SG07S0.8	CC	II	E	4
6	Elaboration of the diploma project	SG11S0.8	CC	II	P	4
7	Practical training for diploma project	SG12S0.8	CC	II	C	2
8	Quality assurance system	SG13S0.8	CO	II	C	4
	Wine and tasting technique					
						<b>30</b>
9	<i>Management of human resources in public food</i>	<i>SG15S0.8</i>	<i>FC</i>	<i>II</i>	<i>C</i>	<i>4</i>
10	<i>English</i>	<i>SG16C7.8</i>	<i>FC</i>	<i>II</i>	<i>C</i>	<i>3</i>
						<b>37</b>
	Presentation of the diploma project	-		II	-	10
						<b>84</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected



Faculty of Animal Productions Engineering and Management  
 Specialization: Bachelor in **CONTROL AND EXPERTISE**  
**OF FOOD PRODUCTS**  
 EQF LEVEL: 6  
 Field of study: **Food engineering**

ISCED CODE: **0721**  
 Duration: 4 years, 240 ECTS  
 Full-time learning  
 Language of teaching: Romanian

1st Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Special Mathematics	CEPA01F1.0	CC	I	E	4
2	Physics	CEPA03F1.0	CC	I	E	4
3	Ecology and environment protection	CEPA06D1.0	CC	I	E	4
4	Organic Chemistry	CEPA07F1.2	CC	I	E	4
5	Elements of mechanical engineering	CEPA09D1.0	CC	I	C	4
6	Inorganic and analytical chemistry	CEPA11F1.0	CC	I	E	4
7	Foreign languages	CEPA12C1.2	CC	I	C	3
8	Physical training and sport	CEPA13C1.2	CC	I	C	3
						<b>30</b>
9	<i>General Economy</i>	<i>CEPA15C1.0</i>	<i>FC</i>	<i>I</i>	<i>C</i>	4
						<b>34</b>
1	Probability theory and mathematical statistics	CEPA02F0.2	CC	II	E	3
2	Applied computer science	CEPA04F0.2	CC	II	C	3
3	Applied computer graphics	CEPA05F0.2	CC	II	C	3
4	Organic Chemistry	CEPA07F1.2	CC	II	E	4
5	Biochemistry I	CEPA08D0.2	CC	II	E	3
6	Physical and colloid chemistry	CEPA10F0.2	CC	II	E	4
7	Foreign languages	CEPA12C1.2	CC	II	C	3
8	Physical training and sport	CEPA13C1.2	CC	II	C	3
						<b>26</b>
9	Field practical training	CEPA14D0.2	CC	II	C	4
						<b>30</b>
10	<i>Communication</i>	<i>CEPA16C0.2</i>	<i>FC</i>	<i>II</i>	<i>C</i>	3
						<b>33</b>
	<b>TOTAL</b>					<b>67</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected



Faculty of Animal Productions Engineering and Management  
 Specialization: Bachelor in **CONTROL AND EXPERTISE**  
**OF FOOD PRODUCTS**  
 EQF LEVEL: 6  
 Field of study: **Food engineering**

ISCED CODE: **0721**  
 Duration: 4 years, 240 ECTS  
 Full-time learning  
 Language of teaching: Romanian

2nd Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Equipment in the food industry	CEPA01D3.4	CC	I	E	5
2	Unit operations in the food industry	CEPA02D3.4	CC	I	E	5
3	Food chemistry	CEPA03D3.0	CC	I	E	5
4	General microbiology	CEPA04D3.0	CC	I	E	4
5	Principles and methods of food preservation	CEPA07D3.4	CC	I	E	4
6	Biochemistry II	CEPA08D3.0	CC	I	E	3
7	Consumer behaviour	CEPA10.1aD3.0	CO	I	C	4
	Global food security policies and strategies	CEPA10.1bD3.0				
						<b>30</b>
8	<i>Foreign languages</i>	<i>CEPA12C3.4</i>	<i>FC</i>	<i>I</i>	<i>C</i>	<i>2</i>
9	<i>Physical training and sport</i>	<i>CEPA13C3.4</i>	<i>FC</i>	<i>I</i>	<i>C</i>	<i>2</i>
10	<i>Enzymatic and immunological methods of analysis</i>	<i>CEPA14S3.0</i>	<i>FC</i>	<i>I</i>	<i>C</i>	<i>3</i>
						<b>37</b>
1	Equipment in the food industry	CEPA01D3.4	CC	II	E	4
2	Unit operations in the food industry	CEPA02D3.4	CC	II	E	4
3	Special microbiology	CEPA05S0.4		II	E	3
4	General technologies in food industry	CEPA06D0.4		II	E	4
5	Principles and methods of food preservation	CEPA07D3.4	CC	II	E	4
6	Special Biotechnologies	CEPA09S0.4	CC	II	C	3
7	Legislation for food industry	CEPA10.2aD0.4	CO	II	C	4
	Elements of electrical engineering	CEPA10.2bD0.4				
						<b>26</b>
8	Field practical training	CEPA11D0.4	CC	II	C	4
						<b>30</b>
9	<i>Foreign languages</i>	<i>CEPA12C3.4</i>	<i>FC</i>	<i>II</i>	<i>C</i>	<i>2</i>
10	<i>Physical training and sport</i>	<i>CEPA13C3.4</i>	<i>FC</i>	<i>II</i>	<i>C</i>	<i>2</i>
11	<i>Chromatographic and electrophoretic methods of food analysis</i>	<i>CEPA15S0.4</i>	<i>FC</i>	<i>II</i>	<i>C</i>	<i>3</i>
						<b>37</b>
	<b>TOTAL</b>					<b>74</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected



Faculty of Animal Productions Engineering and Management  
Specialization: Bachelor in **CONTROL AND EXPERTISE  
OF FOOD PRODUCTS**  
EQF LEVEL: 6  
Field of study: **Food engineering**

ISCED CODE: **0721**  
Duration: 4 years, 240 ECTS  
Full-time learning  
Language of teaching: Romanian

3rd Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	The technology of plant-origin food products	CEPA01S5.6	CC	I	E	5
2	The technology of animal-origin food products	CEPA02S5.6	CC	I	E	5
3	Minimal athermal and thermal processing of foods	CEPA03S5.0	CC	I	E	4
4	Additives and ingredients in the food industry	CEPA04D5.0	CC	I	C	4
5	Gastronomy and catering	CEPA05S5.0	CC	I	E	4
6	Principles of human nutrition	CEPA08D5.6	CC	I	E	4
7	New products designing	CEPA10.1aS5.0	CO	I	C	4
	Functional foods	CEPA10.1bS5.0				
						<b>30</b>
8	<i>Spectroscopic methods of food analysis</i>	<i>CEPA12S5.0</i>	<i>FC</i>	<i>I</i>	<i>C</i>	4
						<b>34</b>
1	The technology of plant-origin food products	CEPA01S5.6	CC	II	E	4
2	The technology of animal-origin food products	CEPA02S5.6	CC	II	E	4
3	Food products innocuity	CEPA06D0.6	CC	II	C	4
4	Food authentication and forgery	CEPA07S0.6	CC	II	C	3
5	Principles of human nutrition	CEPA08D5.6	CC	II	E	4
6	Quality assurance and control in food industry	CEPA09S0.6	CC	II	E	3
7	Environment protection	CEPA10.2aC0.6	CO	II	C	4
	Ethics and academic integrity	CEPA10.2bC0.6				
						<b>26</b>
8	Field specialized training	CEPA11S0.6	CC	II	C	4
						<b>30</b>
9	<i>Methods and techniques for instrumental analysis</i>	<i>CEPA13S0.6</i>	<i>FC</i>	<i>II</i>	<i>C</i>	4
						<b>34</b>
	<b>TOTAL</b>					<b>68</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected



Faculty of Animal Productions Engineering and Management  
 Specialization: Bachelor in **CONTROL AND EXPERTISE**  
**OF FOOD PRODUCTS**  
 EQF LEVEL: 6  
 Field of study: **Food engineering**

ISCED CODE: **0721**  
 Duration: 4 years, 240 ECTS  
 Full-time learning  
 Language of teaching: Romanian

4th Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Quality control of vegetal origin products	CEPA01S7.8	CC	I	E	5
2	Food products merceology	CEPA02S7.0	CC	I	E	4
3	Quality control of animal origin products	CEPA03S7.8	CC	I	E	5
4	Packaging, labelling and design in the food industry	CEPA04S7.0	CC	I	E	4
5	Hygiene in food industry plants	CEPA05S7.0	CC	I	C	3
6	Management	CEPA06D7.8	CC	I	E	5
7	Quality Management	CEPA9.1aS7.0	CO	I	C	4
	Food products analysis	CEPA9.1bS7.0				
						<b>30</b>
8	<i>Epidemiology and public health</i>	<i>CEPA12S7.0</i>	<i>FC</i>	<i>I</i>	<i>C</i>	4
						<b>34</b>
1	Quality control of vegetal origin products	CEPA01S7.8	CC	II	E	3
2	Quality control of animal origin products	CEPA03S7.8	CC	II	E	4
3	Management	CEPA06D7.8	CC	II	E	5
4	Marketing	CEPA07D0.8	CC	II	C	3
5	Sanitary veterinary control and food safety	CEPA08S0.8	CC	II	C	3
6	Statistical control of foods	CEPA9.2aS0.8	CO	II	C	4
	Phytosanitary control	CEPA9.2bS0.8				
						<b>22</b>
7	Practical training for diploma project	CEPA10S0.8	CC	II	C	4
8	Elaboration of the diploma project	CEPA11S0.8	CC	II	P	4
						<b>30</b>
9	<i>Data management systems</i>	<i>CEPA13S0.8</i>	<i>FC</i>	<i>II</i>	<i>C</i>	4
						<b>34</b>
	Presentation of the diploma project	-		II	-	10
						<b>78</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected



Faculty of Animal Productions Engineering and Management  
 Specialization: Bachelor in **CONSUMER AND ENVIRONMENTAL PROTECTION**  
 EQF LEVEL: 6  
 Field of study: **Food engineering**

ISCED CODE: **0721**  
 Duration: 4 years, 240 ECTS  
 Full-time learning  
 Language of teaching: Romanian

1st Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Special mathematics	PCM01F1.0	CC	I	E	4
2	Physics	PCM03F1.0	CC	I	E	4
3	Ecology and environmental protection	PCM06D1.0	CC	I	E	4
4	Organic chemistry	PCM07F1.2	CC	I	E	4
5	Elements of mechanical engineering	PC09D1.0	CC	I	C	4
6	Inorganic and analytical chemistry	PCM11F1.0	CC	I	E	4
7	Foreign languages	PCM12C1.2	CC	I	C	3
8	Physical training and sport	PCM13C1.2	CC	I	C	3
						<b>30</b>
9	<i>Agrifood raw materials</i>	<i>PCM15D1.0</i>	<i>FC</i>	<i>I</i>	<i>C</i>	4
						<b>34</b>
1	Probability theory and mathematical statistics	PCM02F0.2	CC	II	E	3
2	Applied computer science	PCM04F0.2	CC	II	C	3
3	Applied computer graphics	PCM05F0.2	CC	II	C	3
4	Organic chemistry	PCM07F1.2	CC	II	E	4
5	Biochemistry I	PCM08D0.2	CC	II	E	3
6	Physical and colloid chemistry	PCM10F0.2	CC	II	E	4
7	Foreign languages	PCM12C1.2	CC	II	C	3
8	Physical training and sport	PCM13C1.2	CC	II	C	3
						<b>26</b>
9	Field practical training	PCM14D0.2	CC	II	C	4
						<b>30</b>
10	<i>Communication</i>	<i>PCM16C0.2</i>	<i>FC</i>	<i>II</i>	<i>C</i>	3
						<b>33</b>
	<b>TOTAL</b>					<b>67</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

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Faculty of Animal Productions Engineering and Management  
Specialization: Bachelor in **CONSUMER AND ENVIRONMENTAL PROTECTION**  
EQF LEVEL: 6  
Field of study: **Food engineering**

ISCED CODE: **0721**  
Duration: 4 years, 240 ECTS  
Full-time learning  
Language of teaching: Romanian

2nd Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Equipment in the food industry	PCM01D3.4	CC	I	E	5
2	Unit operations in the food industry	PCM02D3.4	CC	I	E	5
3	Food Chemistry	PCM03D3.0	CC	I	E	5
4	General microbiology	PCM04D3.0	CC	I	E	4
5	Principles and methods of food preservation	PCM07D3.4	CC	I	E	4
6	Biochemistry II	PC08D3.0			E	3
7	Consumer behaviour	PCM10.1aD3.0	CO		C	4
	Global food security policies and strategies	PCM10.1bD3.0				
						<b>30</b>
8	<i>Foreign languages</i>	<i>PCM12C3.4</i>	<i>FC</i>	<i>I</i>	<i>C</i>	<i>2</i>
9	<i>Physical training and sport</i>	<i>PCM13C3.4</i>	<i>FC</i>	<i>I</i>	<i>C</i>	<i>2</i>
10	<i>Genetically modified plant and animal raw materials</i>	<i>PCM14S3.0</i>	<i>FC</i>	<i>I</i>	<i>C</i>	<i>3</i>
						<b>37</b>
1	Equipment in the food industry	PCM01D3.4	CC	II	E	4
2	Unit operations in the food industry	PCM02D3.4	CC	II	E	4
3	Special microbiology	PCM05S0.4	CC	II	E	3
4	General technologies in food industry	PCM06D0.4	CC	II	E	4
5	Principles and methods of food preservation	PCM07D3.4	CC	II	E	4
6	Environmental inspection and legislation	PCM09S0.4	CC	II	C	3
7	Legislation for food industry	PCM10.2aD0.4	CO	II	C	4
	Elements of electrical engineering	PCM10.2bD0.4				
						<b>26</b>
8	Field practical training	PCM11D0.4	CC	II	C	4
						<b>30</b>
9	<i>Foreign languages</i>	<i>PCM12C3.4</i>	<i>FC</i>	<i>II</i>	<i>C</i>	<i>2</i>
10	<i>Physical training and sport</i>	<i>PCM13C3.4</i>	<i>FC</i>	<i>II</i>	<i>C</i>	<i>2</i>
11	<i>Physical quantities and automated analysis systems</i>	<i>PCM15S0.4</i>	<i>FC</i>	<i>II</i>	<i>C</i>	<i>3</i>
						<b>37</b>
	<b>TOTAL</b>					<b>74</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

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Faculty of Animal Productions Engineering and Management  
Specialization: Bachelor in **CONSUMER AND ENVIRONMENTAL PROTECTION**  
EQF LEVEL: 6  
Field of study: **Food engineering**

ISCED CODE: **0721**  
Duration: 4 years, 240 ECTS  
Full-time learning  
Language of teaching: Romanian

3rd Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	The technology of plant-origin food products	PCM01S5.6	CC	I	E	5
2	The technology of animal-origin food products	PCM02S5.6	CC	I	E	5
3	Food safety and food security in consumer protection	PCM03S5.0	CC	I	E	4
4	Additives and ingredients in the food industry	PCM04D5.0	CC	I	C	4
5	Investigation techniques for environmental factors	PCM05S5.0	CC	I	E	4
6	Principles of human nutrition	PCM08D5.6	CC	I	E	4
7	Polluting agents and their impact on the environment and consumer	PCM10.1aS5.0	CO	I	C	4
	Biotechnology for recycling of waste products	PCM10.1bS5.0				
						<b>30</b>
8	<i>Process modeling and automation</i>	<i>PCM16S5.0</i>	<i>FC</i>	<i>I</i>	<i>C</i>	4
						<b>34</b>
1	The technology of plant-origin food products	PCM01S5.6	CC	II	E	4
2	The technology of animal-origin food products	PCM02S5.6	CC	II	E	4
3	Food products innocuity	PCM06D.06	CC	II	C	4
4	Food authentication and identification of counterfeits	PCM07S0.6	CC	II	C	3
6	Principles of human nutrition	PCM08D5.6	CC	II	E	4
	Atmosphere and environmental quality	PCM09S0.6			E	3
7	Environment protection	PCM10.2aC0.6	CO	II	C	4
	Ethics and academic integrity	PCM10.2bC0.6				
						<b>26</b>
8	Field specialized training	PCM11S0.6	CC	II	C	4
						<b>30</b>
9	<i>Methods and techniques for instrumental analysis</i>	<i>PCM13S0.6</i>	<i>FC</i>	<i>II</i>	<i>C</i>	4
						<b>34</b>
	<b>TOTAL</b>					<b>68</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

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Faculty of Animal Productions Engineering and Management  
 Specialization: Bachelor in **CONSUMER AND ENVIRONMENTAL PROTECTION**  
 EQF LEVEL: 6  
 Field of study: **Food engineering**

ISCED CODE: **0721**  
 Duration: 4 years, 240 ECTS  
 Full-time learning  
 Language of teaching: Romanian

4th Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Control and expertise of food products	PCM01S7.8	CC	I	E	5
2	Food products merceology	PCM02S7.0	CC	I	E	4
3	Operative control methods in consumer protection	PCM03D7.8	CC	I	E	5
4	Packaging and design in the food industry	PCM04D7.0	CC	I	E	4
5	Hygiene in food industry plants	PCM05S7.0	CC	I	C	3
6	Management	PCM06D7.8	CC	I	E	5
7	Quality Management	PCM9.1aS7.0	CO	I	C	4
	Food products analysis	PCM9.1bS7.0				
						<b>30</b>
8	<i>Traditional and ecological products</i>	<i>PCM12S7.0</i>	<i>FC</i>	<i>I</i>	<i>C</i>	4
						<b>34</b>
1	Control and expertise of food products	PCM01S7.8	CC	II	E	3
2	Operative control methods in consumer protection	PCM03D7.8	CC	II	E	4
3	Management	PCM06D7.8	CC	II	E	5
4	Marketing	PCM07D0.8	CC	II	C	3
5	Colloids in food industry	PCM08S0.8	CC	II	C	3
6	Environmenal audit	PCM9.2aS0.8	CO	II	C	4
	Environmental protection and biodiversity	PCM9.2bS0.8				
						<b>22</b>
7	Elaboration of the diploma project	PCM11S0.8	CC	II	P	4
8	Practical training for diploma project	PCM16S0.8	CC	II	C	4
						<b>30</b>
9	<i>Project design of a production food plant</i>	<i>PCM13S0.8</i>	<i>FC</i>	<i>II</i>	<i>C</i>	4
						<b>34</b>
	Presentation of the diploma project	-		II	-	10
	<b>TOTAL</b>					<b>78</b>

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Faculty of Animal Productions Engineering and Management  
 Specialization: Bachelor in **TECHNOLOGY OF AGRICULTURAL  
 PRODUCTS PROCESSING**  
 EQF LEVEL: 6  
 Field of study: **Food engineering**

ISCED CODE: **0721/0810**  
 Duration: 4 years, 240 ECTS  
 Full-time learning  
 Language of teaching: Romanian

1st Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Organic chemistry	T02F0.2	CC	I	E	5
2	Mathematics	T03F1.0	CC	I	E	4
3	Occupational safety rules and techniques	T05D1.0	CC	I	C	3
4	Ecology and environmental protection	T08F1.0	CC	I	E	4
5	Elements of mechanical engineering	T09D1.0	CC	I	C	4
6	Elements of electrical engineering	T10D1.0	CC	I	C	4
7	Foreign languages	T13C1.2	CC	I	C	3
8	Physical training and sport	T14C1.2	CC	I	C	3
						<b>30</b>
9	<i>Applied physics</i>	<i>T16D1.0</i>	<i>FC</i>	<i>I</i>	<i>C</i>	<i>3</i>
10	<i>Anatomy, histology, embryology</i>	<i>T17F1.2</i>	<i>FC</i>	<i>I</i>	<i>C</i>	<i>6</i>
						<b>39</b>
1	Inorganic and analytical chemistry	T01F1.0	CC	II	E	4
2	Biostatistics	T04F0.2	CC	II	E	3
3	General microbiology	T06D0.2	CC	II	E	3
4	Civil engineering	T07S0.2	CC	II	C	3
5	Applied computer science and graphics computer	T11F0.2	CC	II	C	3
6	Agrifood raw materials	T12S0.2	CC	II	E	4
7	Foreign languages	T13C1.2	CC	II	C	3
8	Physical training and sport	T14C1.2	CC	II	C	3
						<b>26</b>
9	Field practical training	T15D0.2	CC	II	C	4
						<b>30</b>
10	<i>Anatomy, histology, embryology</i>	<i>T17F1.2</i>	<i>FC</i>	<i>II</i>	<i>C</i>	<i>4</i>
11	<i>Physiology</i>	<i>T18F0.2</i>	<i>FC</i>	<i>II</i>	<i>C</i>	<i>3</i>
12	<i>Psychology of human nutrition</i>	<i>T19D0.2</i>	<i>FC</i>	<i>II</i>	<i>C</i>	<i>4</i>
						<b>41</b>
	<b>TOTAL</b>					<b>80</b>

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 Specialization: Bachelor in **TECHNOLOGY OF AGRICULTURAL  
 PRODUCTS PROCESSING**  
 EQF LEVEL: 6  
 Field of study: **Food engineering**

ISCED CODE: **0721/0810**  
 Duration: 4 years, 240 ECTS  
 Full-time learning  
 Language of teaching: Romanian

2nd Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Biochemistry	T01F3.4	CC	I	E	4
2	Physical and colloidal chemistry	T02F3.0	CC	I	E	4
3	Food chemistry	T03F3.0	CC	I	E	5
4	Equipment in the food industry	T04D3.4	CC	I	E	5
5	Unit operations in the food industry	T05D3.4	CC	I	E	4
6	Special microbiology	T06D3.0	CC	I	E	4
7	Principles and methods of food preservation	T08D3.4	CC	I	C	4
						<b>30</b>
8	<i>Foreign languages</i>	<i>T12C3.4</i>	<i>FC</i>	<i>I</i>	<i>C</i>	2
9	<i>Physical training and sport</i>	<i>T13C3.4</i>	<i>FC</i>	<i>I</i>	<i>C</i>	2
10	<i>Descriptive geometry and technical drawing</i>	<i>T14F3.0</i>	<i>FC</i>	<i>I</i>	<i>C</i>	4
						<b>38</b>
1	Biochemistry	T01F3.4	CC	II	E	4
2	Equipment in the food industry	T04D3.4	CC	II	C	3
3	Unit operations in the food industry	T05D3.4	CC	II	C	3
4	General technologies in food industry	T07D0.4	CC	II	E	4
5	Principles and methods of food preservation	T08D3.4	CC	II	C	4
6	Sensory analysis	T09D0.4	CC	II	E	4
7	Vegetable and fruit processing technology	T10S0.4	CC	II	E	4
						<b>26</b>
8	Field practical training	T11D0.4	CC	II	C	4
						<b>30</b>
9	<i>Foreign languages</i>	<i>T12C3.4</i>	<i>FC</i>	<i>II</i>	<i>C</i>	2
10	<i>Physical training and sport</i>	<i>T13C3.4</i>	<i>FC</i>	<i>II</i>	<i>C</i>	2
11	<i>Electrical engineering and electronics applied in the food industry</i>	<i>T15F0.4</i>	<i>FC</i>	<i>II</i>	<i>C</i>	4
						<b>38</b>
	<b>TOTAL</b>					<b>76</b>

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Faculty of Animal Productions Engineering and Management  
Specialization: Bachelor in **TECHNOLOGY OF AGRICULTURAL  
PRODUCTS PROCESSING**  
EQF LEVEL: 6  
Field of study: **Food engineering**

ISCED CODE: **0721/0810**  
Duration: 4 years, 240 ECTS  
Full-time learning  
Language of teaching: Romanian

3rd Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	The technology of milk and dairy products processing	T01S5.6	CC	I	E	5
2	The technology of meat and meat products processing	T02S5.6	CC	I	E	5
3	The technology of fish products processing	T04S5.0	CC	I	E	4
4	Cooling and air-conditioning equipment in the food industry	T05S5.6	CC	I	E	3
5	Additives and ingredients in the food industry	T06D5.0	CC	I	C	4
6	The technology of extractive, fermentative and sugary products	T07S5.0	CC	I	E	5
7	Ethics and academic integrity	T10D5.0	CO	I	C	4
	Global food security policies and strategies	T11S5.0				
						<b>30</b>
8	<i>Catering</i>	<i>T14S5.0</i>	<i>FC</i>	<i>I</i>	<i>C</i>	4
						<b>34</b>
1	The technology of milk and dairy products processing	T01S5.6	CC	II	E	5
2	The technology of meat and meat products processing	T02S5.6	CC	II	E	5
3	The technology of poultry products	T03S0.6	CC	II	E	4
4	Cooling and air-conditioning equipment in food industry	T05S5.6	CC	II	E	4
5	The technology of milling and bakery	T08S0.6	CC	II	E	4
6	Foods for special purpose	T12D0.6	CO	II	C	4
	Legislation for food industry	T13D0.6				
						<b>26</b>
7	Field specialized training	T09S0.6	CC	II	C	4
						<b>30</b>
	<b>TOTAL</b>					<b>64</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

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Faculty of Animal Productions Engineering and Management  
 Specialization: Bachelor in **TECHNOLOGY OF AGRICULTURAL  
 PRODUCTS PROCESSING**  
 EQF LEVEL: 6  
 Field of study: **Food engineering**

ISCED CODE: **0721/0810**  
 Duration: 4 years, 240 ECTS  
 Full-time learning  
 Language of teaching: Romanian

4th Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Principles of human nutrition	T01D7.0	CC	I	E	5
2	Control and expertise of animal food products	T03S7.8	CC	I	E	5
3	Special technologies in the food industry	T04S7.0	CC	I	E	4
4	Hygiene in food industry plants	T05D7.0	CC	I	C	4
5	Packaging, labelling and design in the food industry	T07D7.0	CC	I	E	4
6	Management	T08D7.8	CC	I	E	4
7	Food biotechnologies	T13D7.0	CO	I	C	4
	Functional foods and organic foods	T14D7.0				
						<b>30</b>
8	<i>Design elements in the food industry</i>	<i>T17D7.8</i>	<i>FC</i>	<i>I</i>	<i>C</i>	4
						<b>34</b>
1	Principles of human nutrition	T01D7.0	CC	II	E	4
2	Control and expertise of animal food products	T03S7.8	CC	II	E	4
3	Food toxicology	T06D0.8	CC	II	C	4
4	Management	T08D7.8	CC	II	E	3
5	Marketing	T09D0.8	CC	II	C	2
6	Accountancy	T10C0.8	CC	II	C	2
7	The technology of beekeeping products processing	T15S0.8	CO	II	C	4
	Food products traceability	T16D0.8				
						<b>23</b>
8	Elaboration of the diploma project	T11S0.8	CC	II	C	4
9	Practical training for the diploma project	T12S0.8	CC	II	C	3
						<b>30</b>
10	<i>Design elements in the food industry</i>	<i>T17D7.8</i>	<i>FC</i>	<i>II</i>	<i>C</i>	4
						<b>34</b>
	Elaboration and presentation of the diploma project	-		II	-	10
	<b>TOTAL</b>					<b>78</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected



Faculty of Animal Productions Engineering and Management  
 Specialization: Bachelor in **ANIMAL SCIENCE**  
 EQF LEVEL: 6  
 Field of study: **Animal Science**

ISCED CODE: **0811**  
 Duration: 4 years, 240 ECTS  
 Full-time learning  
 Language of teaching: Romanian

1st Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Anatomy, histology, embryology	Z01F1.2	CC	I	E	6
2	Biochemistry	Z02F1.2	CC	I	E	6
3	Mathematics	Z03F1.0	CC	I	E	4
4	Introduction to animal science	Z05D1.0	CC	I	C	3
5	Occupational safety rules and techniques	Z06D1.0	CC	I	C	3
6	Ecology and environmental protection	Z11F1.0	CC	I	C	4
7	Foreign Languages	Z12C1.2	CC	I	C	2
8	Physical training and sport	Z13C1.2	CC	I	C	2
						<b>30</b>
9	Applied physics	Z15F1.0	FC	I	C	3
10	Cell biology	Z16F1.0	FC	I	C	3
						<b>36</b>
1	Anatomy, histology, embryology	Z01F1.2	CC	II	E	3
2	Biochemistry	Z02F1.2	CC	II	E	3
3	Biostatistics	Z04F0.2	CC	II	E	3
4	General agriculture	Z07D0.2	CC	II	E	3
5	Physiology	Z08F0.2	CC	II	E	3
6	General microbiology	Z09F0.2	CC	II	C	3
7	Civil engineering	Z10D0.2	CC	II	C	2
8	<i>Applied computer science and computer aided graphics</i>	<i>Z17F0.2</i>	<i>FC</i>	<i>II</i>	C	2
9	Foreign Languages	Z12C1.2	CC	II	C	2
10	Physical training and sport	Z13C1.2	CC	II	C	2
						<b>26</b>
11	Field practical training	Z14D0.2	CC	II	C	4
						<b>30</b>
	<b>TOTAL</b>					<b>66</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected



Faculty of Animal Productions Engineering and Management  
 Specialization: Bachelor in **ANIMAL SCIENCE**  
 EQF LEVEL: 6  
 Field of study: **Animal Science**

ISCED CODE: **0811**  
 Duration: 4 years, 240 ECTS  
 Full-time learning  
 Language of teaching: Romanian

2nd Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Genetics	Z01F3.4	CC	I	E	5
2	Animal physiology	Z02F3.0	CC	I	E	6
3	Animal reproduction	Z03D3.4	CC	I	E	5
4	Machines and equipments	Z04D3.5	CC	I	E	3
5	Animal feed	Z05D3.0	CC	I	E	4
6	Zootechnical hygiene and animal welfare	Z06D3.0	CC	I	C	3
7	Etology	Z10D3.0	CO	I	C	4
	Sanitary-veterinary techniques	Z11D3.0				
						<b>30</b>
8	<i>Toxic plants and medicinal herbs</i>	Z14D3.0	FC	I	C	3
9	<i>Foreign languages</i>	Z15C3.4	FC	I	C	2
10	<i>Physical training and sport</i>	Z16C3.4	FC	I	C	2
						<b>37</b>
1	Genetics	Z01F3.4	CC	II	E	5
2	Animal reproduction	Z03D3.4	CC	II	E	4
3	Machines and equipments	Z04D3.5	CC	II	E	3
4	Beekeeping and sericulture	Z07S0.4	CC	II	E	5
5	Pisciculture	Z08S0.4	CC	II	E	5
6	Reproduction biotechniques	Z12D0.4	CO	II	C	4
	Biotechnologies in animal nutrition	Z13D0.4				
						<b>26</b>
7	Field practical training	Z09D0.4	CC	II	C	4
						<b>30</b>
8	<i>Foreign languages</i>	Z15C3.4	FC	II	C	2
9	<i>Physical training and sport</i>	Z16C3.4	FC	II	C	2
						<b>34</b>
	<b>TOTAL</b>					<b>71</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected





Faculty of Animal Productions Engineering and Management  
 Specialization: Bachelor in **ANIMAL SCIENCE**  
 EQF LEVEL: 6  
 Field of study: **Animal Science**

ISCED CODE: **0811**  
 Duration: 4 years, 240 ECTS  
 Full-time learning  
 Language of teaching: Romanian

3rd Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Animal breeding	Z01D5.6	CC	I	E	8
2	Animals feeding and nutrition	Z02D5.6	CC	I	E	8
3	Animal pathology	Z03D5.0	CC	I	C	4
4	Rabbit rearing, fur bearing animals, and wild animals	Z06S5.0	CC	I	E	6
5	Ethics and academic integrity	Z10D5.0	CO	I	C	4
	Cynology	Z11D5.0				
						<b>30</b>
6	<i>Foreign languages</i>	Z14C5.6	FC	I	C	2
						<b>32</b>
1	Animal breeding	Z01D5.6	CC	II	E	3
2	Animals feeding and nutrition	Z02D5.6	CC	II	E	3
3	Technology of horses rearing	Z04S0.6	CC	II	E	4
	Feed quality control	Z06D5.0	CC	II	E	4
4	Technology of pigs rearing	Z07S0.6	CC	II	E	4
5	Technology of sheep and goats rearing	Z08S0.6	CC	II	E	4
6	Equitation and equestrian sports	Z12S0.6	CO	II	C	4
	Mixed forage	Z13D5.0				
						<b>26</b>
7	Field specialized training	Z09S0.6	CC	II	C	4
						<b>30</b>
8	<i>Foreign languages</i>	Z14C5.6	FC	II	C	2
9	<i>Setting up the hunting fund</i>	Z15S0.6	FC	II	C	3
						<b>35</b>
	<b>TOTAL</b>					<b>67</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected



Faculty of Animal Productions Engineering and Management  
Specialization: Bachelor in **ANIMAL SCIENCE**  
EQF LEVEL: 6  
Field of study: **Animal Science**

ISCED CODE: **0811**  
Duration: 4 years, 240 ECTS  
Full-time learning  
Language of teaching: Romanian

4th Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Technology of cattle rearing	Z01S7.8	CC	I	E	6
2	Technology of pigs rearing	Z02S7.0	CC	I	E	5
3	Technology of poultry rearing	Z03S7.8	CC	I	E	6
4	Technology of sheep and goats rearing	Z04S7.0	CC	I	E	5
5	Management	Z06D7.8	CC	I	E	4
6	Amelioration programs	Z11D7.0	CO	I	C	4
	Experimental techniques	Z12D7.0				
						<b>30</b>
7	<i>Technological design in animal husbandry</i>	Z15S7.8	FC	I	C	4
8	<i>Intensive rearing of wild animals</i>	Z16S7.0	FC	I	C	3
						<b>37</b>
1	Technology of cattle rearing	Z01S7.8	CC	II	E	4
2	Technology of poultry rearing	Z03S7.8	CC	II	E	4
3	Technology of animal origin products	Z05S0.8	CC	II	E	4
4	Management	Z06D7.8	CC	II	E	3
5	Marketing	Z07D0.8	CC	II	C	2
6	Accountancy	Z08C0.8	CC	II	C	2
8	Buffaloes rearing	Z13S0.8	CO	II	C	4
	Palmipedes rearing	Z14S0.8				
						<b>23</b>
7	Elaboration of the diploma project	Z09S0.8	CC	II	C	4
9	Practical training for the diploma project	Z10S0.8	CC	II	C	3
						<b>30</b>
10	<i>Technological design in animal husbandry</i>	Z15S7.8	FC	II	C	4
						<b>34</b>
11	Presentation of the diploma project	-		II	-	10
	<b>TOTAL</b>					<b>81</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected



Faculty of Animal Productions Engineering and Management  
 Specialization: Master's in **FOOD SAFETY AND BIOSECURITY**  
 EQF LEVEL: 7  
 Field of study: **Food engineering**

ISCED CODE: **0721**  
 Duration: 2 years, 120 ECTS  
 Full-time learning  
 Language of teaching: English

1st Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Public health and food safety	FS01A1.0	CC	I	E	8
2	Advanced applications of food safety systems principles	FS02S1.0	CC	I	E	8
3	Advanced chemical, microbiological and toxicological control and analysis of food	FS03S1.0	CC	I	E	8
4	Economic strategies in food safety	FS07S1.0	CO	I	C	6
	Food safety policy and global food system	FS08S1.0				
						<b>30</b>
1	Additional products used in technological processes in the food industry	FS04A0.2	CC	II	E	7
2	Biosecurity producing raw materials of vegetable origin	FS05A0.2	CC	II	E	8
3	Biosecurity producing raw materials of animal origin	FS06A0.2	CC	II	E	8
4	Risk assessment for food	FS09A0.2	CO	II	C	7
	Biorisk analysis in food	FS10A0.2				
						<b>30</b>
	<b>TOTAL</b>					<b>60</b>

2nd Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Quality assurance and food safety for products of vegetable origin	FS01A3.0	CC	I	E	10
2	Quality assurance and food safety for products of animal origin	FS02A3.0	CC	I	E	10
3	Good manufacturing practices (GMP) in food processing	FS03S3.0	CC	I	E	10
						<b>30</b>
1	Academic ethic and integrity	FS04S0.4	CC	II	E	5
2	Scientific research activity	FS05S0.4	CC	II	C	7
3	Practical activity	FS06S0.4	CC	II	C	10
4	Elaboration of the dissertation	FS07S0.4	CC	II	C	8
						<b>30</b>
	Dissertation exam			II	E	10
	<b>TOTAL</b>					<b>70</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected



Faculty of Animal Productions Engineering and Management  
 Specialization: Master's in **ENTREPRENEURSHIP IN  
 ANIMAL PRODUCTION**  
 EQF LEVEL: 7  
 Field of study: **Animal Science**

ISCED CODE: **0721/0810**  
 Duration: 2 years, 120 ECTS  
 Full-time learning  
 Language of teaching: Romanian

1st Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Entrepreneurship development within animal production	AP01S1.0	CC	I	E	5
2	Expertise and control in animal production	AP02S1.0	CC	I	E	5
3	Modeling and management techniques in animal production	AP03S1.0	CC	I	E	5
4	Cattle farms design and development	AP06A1.2	CC	I	E	8
5	Economic strategies in animal production	AP07S1.0	CO	I	C	7
	Legislation in animal production	AP08S1.0				
						<b>30</b>
1	Reproduction planning within animals breeding	AP04A0.2	CC	II	E	7
2	Poultry farms development and design	AP05A0.2	CC	II	E	8
3	Cattle farms development and design	AP06A1.2	CC	II	E	8
4	Project management	AP09A0.2	CO	II	C	7
	Wastes management within animal productions	AP10A0.2				
						<b>30</b>
5	<i>Rabbit - production, pet and experimental animal</i>	<i>AP11A0.2</i>	<i>FC</i>	<i>II</i>	<i>C</i>	<i>7</i>
						<b>37</b>
	<b>TOTAL</b>					<b>67</b>

2nd Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Poultry farms development and design	AP01A3.0	CC	I	E	8
2	Sheep farms development and design	AP02A3.0	CC	I	E	7
3	Pigs farms development and design	AP03A3.0	CC	I	E	7
4	Alternative zootechnical farms development and design	AP04A3.0	CC	I	E	8
						<b>30</b>
1	Ethics and academic integrity	AP05S0.4	CC	II	E	5
2	Scientific research activity	AP06S0.4	CC	II	C	7
3	Practical activity	AP07S0.4	CC	II	C	10
4	Elaboration of the dissertation paper	AP08S0.4	CC	II	C	8
						<b>30</b>
	Dissertation exam			II	E	10
	<b>TOTAL</b>					<b>60</b>



Faculty of Animal Productions Engineering and Management  
Specialization: Master's in **SPECIAL TECHNOLOGIES**  
**IN FOOD INDUSTRY**  
EQF LEVEL: 7  
Field of study: **Food engineering**

ISCED CODE: **0721**  
Duration: 2 years, 120 ECTS  
Full-time learning  
Language of teaching: Romanian

1st Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Modern analysis techniques in the food industry	TSA01A1.0	CC	I	E	8
2	Statistical quality control	TSA02S1.0	CC	I	E	6
3	Food products merceology	TSA03S1.0	CC	I	E	8
4	Food quality management	TSA06A1.2	CC	I	E	8
						<b>30</b>
1	Modern technologies of ensuring stability and innocuity to food products	TSA04A0.2	CC	II	E	8
2	Food products authentication and expertise	TSA05A0.2	CC	II	E	8
3	Food products quality management	TSA06A1.2	CC	II	E	8
4	Economic strategies in food industry	TSA07S0.2	CO	II	C	6
5	Legislation in food industry	TSA08S0.2				
						<b>30</b>
	<b>TOTAL</b>					<b>60</b>

2nd Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Food products authentication and expertise	TSA01A3.0	CC	I	E	6
2	Evaluation of sensory characteristics of food products	TSA02A3.0	CC	I	E	8
3	Modeling and management techniques in food industry	TSA03A3.0	CC	I	E	8
4	Designing and promoting of plant-origin food products	TSA08S3.0	CO	I	C	8
	Designing and promoting of animal-origin food products	TSA08S3.0				
						<b>30</b>
1	Ethics and academic integrity	TSA04S0.4	CC	II	E	5
2	Scientific research activity	TSA05S0.4	CC	II	C	7
3	Practical activity	TSA06S0.4	CC	II	C	10
4	Elaboration of the dissertation paper	TSA07S0.4	CC	II	C	8
						<b>30</b>
	Dissertation exam			II	E	10
	<b>TOTAL</b>					<b>60</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected



Faculty of Animal Productions Engineering and Management  
 Specialization: Master's in **FOOD BIOSAFETY**  
 EQF LEVEL: 7  
 Field of study: **Food engineering**

ISCED CODE: **0721**  
 Duration: 2 years, 120 ECTS  
 Full-time learning  
 Language of teaching: Romanian

1st Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Public health and food safety	BPA01A1.0	CC	I	E	6
2	Food quality and safety assurance by controlling the automatization of technological flows	BPA02S1.0	CC	I	E	6
3	Advanced chemical, microbiological and toxicological procedures of food control and analysis	BPA03S1.0	CC	I	E	6
4	Additional products used in food industry processing	BPA04A1.0	CC	I	E	6
5	Economic strategies in food safety	BPA08S1.0	CO	I	C	6
	Legislation in food safety and security	BPA09S1.0				
						<b>30</b>
1	Biosecurity on the milk supply chain	BPA05A0.2	CC	II	E	8
2	Biosecurity on the meat supply chain	BPA06A0.2	CC	II	E	8
3	Biosecurity on the beekeeping supply chain	BPA07A0.2	CC	II	E	8
4	Biosecurity on aquatic organisms supply chain	BPA10A0.2	CO	II	C	6
	Biosecurity on game supply chain	BPA11A0.2				
						<b>30</b>
	<b>TOTAL</b>					<b>60</b>

2nd Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Assuring quality and security in milk processing technology	BPA01A3.0	CC	I	E	8
2	Assuring quality and security in meat processing technology	BPA02A3.0	CC	I	E	8
3	Biosecurity on the poultry supply chain	BPA03A3.0	CC	I	E	8
4	Assuring quality and biosecurity in vegetable processing technology	BPA04A3.0	CC	I	E	6
						<b>30</b>
1	Ethics and academic integrity	BPA05S0.4	CC	II	E	5
2	Scientific research activity	BPA06S0.4	CC	II	C	7
3	Practical activity	BPA07S0.4	CC	II	C	10
4	Elaboration of the dissertation paper	BPA08S0.4	CC	II	C	8
						<b>30</b>
	Dissertation exam			II	E	10
	<b>TOTAL</b>					<b>70</b>



Faculty of Animal Productions Engineering and Management  
 Specialization: Master's in **AGRICULTURAL AND PROCESSED  
 FOOD PRODUCTS EXPERTISE**  
 EQF LEVEL: 7  
 Field of study: **Food engineering**

ISCED CODE: **0721**  
 Duration: 2 years, 120 ECTS  
 Full-time learning  
 Language of teaching: Romanian

1st Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Morphomacrosopic examination of slaughtered animals	EPA101A10	CC	I	E	7
2	Control and expertise of natural pigments and colorants	EPA102A10	CC	I	E	8
3	Biochemical processes affecting the food quality	EPA103A10	CC	I	E	7
4	Modern molecular biology methods and techniques used in the control and expertise of agro-food products	EPA104A12	CC	I	E	8
						<b>30</b>
1	Modern molecular biology methods and techniques used in the control and expertise of agro-food products	EPA104A12	CC	II	E	8
2	Authentication and certification of food products	EPA105A02	CC	II	E	7
3	Modern analytical chemistry methods and techniques used in the control and expertise of agro-food products	EPA106A02	CC	II	E	9
4	Development of business communication and negotiation skills	EPA107aA02	CO	II	C	6
	Legislation regarding the expertise of agri-food products	EPA107bA02				
						<b>30</b>
	<b>TOTAL</b>					<b>60</b>

2nd Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Food products quality, safety and security	EPA201A30	CC	I	E	6
2	Milk and dairy products expertise	EPA202A30	CC	I	E	8
3	Meat and meat products expertise	EPA203S30	CC	I	E	8
4	Plant-based food expertise	EPA204aS30	CO	I	C	8
	Poultry meat, of eggs and game expertise	EPA204bS30				
						<b>30</b>
1	Ethics and academic integrity	EPA205S04	CC	II	E	5
2	Scientific research activity	EPA206S04	CC	II	C	7
3	Practical activity	EPA207S04	CC	II	C	10
4	Elaboration of the dissertation paper	EPA208S04	CC	II	C	8
						<b>30</b>
	Dissertation exam			II	E	10
	<b>TOTAL</b>					<b>70</b>



# Faculty of Veterinary Medicine







Faculty of Veterinary Medicine  
Specialization: integrated Bachelor + Master of Sciences in  
**VETERINARY MEDICINE**  
EQF LEVEL: 7  
Field of study: **Veterinary Medicine**

ISCED CODE: **0841**  
Duration: 6 years, 360 ECTS  
Full-time learning  
Language of teaching: Romanian/**English**/French

1st Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Anatomy 1	V671DOS01	CC	I	E	6
2	Histology and Embryology 1	V671DOS03	CC	I	E	5
3	Chemistry	V671DOF01	CC	I	E	5
4	Animal Biology	V671DOF02	CC	I	C	4
5	Genetics	V671DOS06	CC	I	E	3
6	Applied Mathematics in Biological Sciences	V671DOF04	CC	I	C	3
7	Foreign Languages 1	V671DOC01	CC	I	C	2
8	History of Veterinary Medicine	V671DAC01	CO	I	C	2
	Scientific Information, Methods and Techniques of Documentation	V671DAC02				
						<b>30</b>
9	<i>European Institutions and EU Legislation</i>	<i>V671DFC01</i>	<i>FC</i>	<i>I</i>	<i>C</i>	2
						<b>32</b>
1	Anatomy 2	V671DOS02	CC	II	E	3
2	Histology and Embryology 2	V671DOS04	CC	II	E	3
3	Biochemistry 1	V671DOS05	CC	II	E	3
4	Animal Nutrition and Agronomy 1	V671DOS07	CC	II	E	3
5	Physics	V671DOF03	CC	II	E	3
6	Plant Biology	V671DOF05	CC	II	C	2
7	Rural Economy	V671DOS08	CC	II	PV	2
8	Foreign Languages 2	V671DOC02	CC	II	C	2
9	Physical Education 1*	V671DOC04	CC	II	C	2
10	Communication techniques	V671DOC06	CC	II	PV	1
11	Quality Management of Teaching in Veterinary Medicine	V671DAS01	CO	II	C	2
	Development of Professional Abilities and Carrer Orientation	V671DAC03				
						<b>26</b>
12	Intramural and Extramural Practical Training 1	V671DOF06	CC	II	C	5
13	External Practical Training 1	V671DOF07	CC	II	-	1
						<b>32</b>
<b>TOTAL</b>						<b>64</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course; \*Additional credit course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected



Faculty of Veterinary Medicine  
Specialization: integrated Bachelor + Master of Sciences in  
**VETERINARY MEDICINE**  
EQF LEVEL: 7  
Field of study: **Veterinary Medicine**

ISCED CODE: **0841**  
Duration: 6 years, 360 ECTS  
Full-time learning  
Language of teaching: Romanian/**English**/French

2nd Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Anatomy 3	V672DOS01	CC	I	E	6
2	Biochemistry 2	V672DOS03	CC	I	C	4
3	Microbiology 1	V672DOS04	CC	I	E	5
4	Physiology 1	V672DOS06	CC	I	E	5
5	Physiopathology 1	V672DOS08	CC	I	E	6
6	Animal Nutrition and Agronomy 2	V672DOS12	CC	I	E	4
7	Physical Education 2*	V672DOC02	CC	I	C	2
						<b>32</b>
8	<i>Functional Investigation</i>	V672DFS02	FC	I	C	2
9	<i>Foreign Languages 3</i>	V672DFC01	FC	I	C	1
10	<i>Volunteering Activities</i>	V672DFU01	FC	I	C	2
						<b>37</b>
1	Anatomy 4	V672DOS02	CC	II	E	3
2	Microbiology 2	V672DOS05	CC	II	E	4
3	Physiology 2	V672DOS07	CC	II	E	4
4	Physiopathology 2	V672DOS09	CC	II	C	3
5	Animal Breeding	V672DOS10	CC	II	C	4
6	Animal Productions 1	V672DOS11	CC	II	E	4
7	Biosecurity and biosafety in veterinary medicine	V672DAS03	CO	II	C	2
	Laboratory Management of Veterinary Field and Food Safety	V672DAS02				
						<b>24</b>
8	Intramural and Extramural Practical Training 2	V672DOS14	CC	II	C	5
9	External Practical Training 2	V672DOS15	CC	II	-	1
						<b>30</b>
10	<i>Medicine of Laboratory Animals</i>	V672DFS03	FC	II	C	2
11	<i>Foreign Languages 4</i>	V672DFC02	FC	II	C	1
12	<i>Volunteering Activities</i>	V672DFU01	FC	II	C	2
						<b>35</b>
	<b>TOTAL</b>					<b>72</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course; \*Additional credit course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected



Faculty of Veterinary Medicine  
Specialization: integrated Bachelor + Master of Sciences in  
**VETERINARY MEDICINE**  
EQF LEVEL: 7  
Field of study: **Veterinary Medicine**

ISCED CODE: **0841**  
Duration: 6 years, 360 ECTS  
Full-time learning  
Language of teaching: Romanian/**English**/French

3rd Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Animal Productions 2	V673DOS01	CC	I	E	4
2	Immunology	V673DOS02	CC	I	E	4
3	Veterinary Hygiene and Environment Protection	V673DOS04	CC	I	E	4
4	Ethology	V673DOS07	CC	I	C	1
5	Semiotics 1	V673DOS09	CC	I	C	4
6	Pathology 1	V673DOS11	CC	I	E	5
7	Pharmacology 1	V673DOS13	CC	I	C	5
8	Dermatology	V673DAS01	CO	I	C	3
	Cytopathological Diagnosis	V673DAS02				
						<b>30</b>
9	<i>Foodstuff Microbiology</i>	V673DFS02	FC	I	C	2
10	<i>Volunteering Activities</i>	V673DFU02	FC	I	C	2
11	<i>Foreign Languages 5</i>	V673DFC01	FC	I	C	1
12	<i>Pet breeding</i>	V673DFS03	FC	I	C	2
						<b>37</b>
1	Epidemiology	V673DOS03	CC	II	C	3
2	Welfare and Animal Protection	V673DOS05	CC	II	E	4
3	Parasitology, Parasitic Disease and Clinical Lectures on Species 1	V673DOS06	CC	II	C	4
4	Anesthesiology	V673DOS08	CC	II	C	4
5	Semiotics 2	V673DOS10	CC	II	E	4
6	Pathology 2	V673DOS12	CC	II	E	3
7	Pharmacology 2	V673DOS14	CC	II	E	3
						<b>25</b>
8	Intramural and Extramural Practical Training 3	V673DOS16	CC	II	C	4
9	External Practical Training 3	V673DOS17	CC	II	-	1
						<b>30</b>
10	<i>Ethics and Academic Integrity</i>	V673DFU01	FC	II	C	2
11	<i>Volunteering Activities</i>	V673DFU02	FC	II	C	2
12	<i>Communication and communication protocols with patient owners</i>	V673DFU03	FC	II	C	2
13	<i>Foreign Languages 6</i>	V673DFC02	FC	II	C	1
						<b>37</b>
	<b>TOTAL</b>					<b>74</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course; \*Additional credit course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected



Faculty of Veterinary Medicine  
 Specialization: integrated Bachelor + Master of Sciences in  
**VETERINARY MEDICINE**  
 EQF LEVEL: 7  
 Field of study: **Veterinary Medicine**

ISCED CODE: **0841**  
 Duration: 6 years, 360 ECTS  
 Full-time learning  
 Language of teaching: Romanian/**English**/French

4th Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Internal Medicine and Clinical Lectures on Species 1	V674DOS01	CC	I	E	5
2	Infectious Diseases, Preventive Medicine and Clinical Lectures on Species 1	V674DOS04	CC	I	E	4
3	Veterinary State Medicine and Public Health	V674DOS06	CC	I	C	1
4	Reproduction	V674DOS07	CC	I	E	5
5	Propaedeutics	V674DOS09	CC	I	E	4
6	Toxicology 1	V674DOS11	CC	I	E	4
7	Parasitology, Parasitic Diseases and Clinical Lectures on Species 2	V674DOS13	CC	I	C	5
8	Oncology	V674DAS01	CO	I	C	2
	Medicine of aquatic animals and aquaculture	V674DAS02				
						<b>30</b>
9	<i>Exotic Pathology</i>	V674DFS02	FC	I	C	2
10	<i>Biotechnologies in Reproduction</i>	V674DFS03	FC	I	C	2
11	<i>Foreign Languages 7</i>	V673DFC01	FC	I	C	1
12	<i>Volunteering Activities</i>	V674DFU01	FC	I	C	2
13	<i>Sample collection</i>	V674DFS10	FC	I	C	2
						<b>39</b>
1	Internal Medicine and Clinical Lectures on Species 2	V674DOS02	CC	II	E	3
2	Surgery and Clinical Lecture on Species 1	V674DOS03	CC	II	E	4
3	Infectious Diseases, Preventive Medicine and Clinical Lectures on Species 2	V674DOS05	CC	II	E	4
4	Obstetrics	V674DOS08	CC	II	E	3
5	Food Hygiene and Technology 1	V674DOS10	CC	II	E	4
6	Toxicology 2	V674DOS12	CC	II	C	4
7	Parasitology, Parasitic Diseases and Clinical Lectures on Species 3	V674DOS14	CC	II	E	3
						<b>25</b>
8	Intramural and Extramural Practical Training 4	V674DOS16	CC	II	C	4
9	External Practical Training 4	V674DOS17	CC	II	-	1
						<b>30</b>
10	<i>Health of Bees and Silkworkms</i>	V674DFS08	FC	II	C	2
11	<i>Foreign Languages 8</i>	V673DFC02	FC	II	C	1
12	<i>Volunteering Activities</i>	V674DFU01	FC	II	C	2
13	<i>Techniques of Molecular Biology Applied in Veterinary Medicine</i>	V674DFS09	FC	II	C	2
						<b>37</b>
	<b>TOTAL</b>					<b>76</b>



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Duration: 6 years, 360 ECTS  
Full-time learning  
Language of teaching: Romanian/**English**/French

5th Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Internal Medicine and Clinical Lectures on Species 3	V675DOS01	CC	I	E	5
2	Surgery and Clinical Lecture on Species 2	V675DOS03	CC	I	E	5
3	Infectious Diseases, Preventive Medicine and Clinical Lectures on Species 3	V675DOS05	CC	I	E	5
4	Reproduction Disorders and Clinical Lectures on Species 1	V675DOS07	CC	I	E	5
5	Food Hygiene and Technology 2	V675DOS09	CC	I	C	3
6	Inspection and Control of Foodstuffs of Animal Origin 1	V675DOS10	CC	I	E	5
7	Radiology and Diagnostic Imaging 1	V675DOS12	CC	I	C	2
						<b>30</b>
8	<i>Emerging and Re-emerging Zoonotic Diseases</i>	V675DFS02	FC	I	C	2
						<b>32</b>
1	Internal Medicine and Clinical Lectures on Species 4	V675DOS02	CC	II	E	4
2	Surgery and Clinical Lecture on Species 3	V675DOS04	CC	II	E	4
3	Infectious Diseases, Preventive Medicine and Clinical Lectures on Species 4	V675DOS06	CC	II	E	4
4	Reproduction Disorders and Clinical Lectures on Species 2	V675DOS08	CC	II	E	4
5	Inspection and Control of Foodstuffs of Animal Origin 2	V675DOS11	CC	II	C	3
6	Radiology and Diagnostic Imaging 2	V675DOS13	CC	II	E	2
7	Emergencies in Veterinary Medicine	V675DOS14	CC	II	C	2
8	Management of Food Safety	V675DAS01	CO	II	C	2
	Orthopedics and Hoof Dressing	V675DAS02				
	Management of Scientific Research Activity	V675DAS03				
						<b>25</b>
9	Intramural and Extramural Practical Training 5	V675DOS16	CC	II	C	4
10	External Practical Training 5	V675DOS17	CC	II	-	1
						<b>30</b>
11	<i>Alternative Therapies</i>	V675DFS01	FC	II	C	2
12	<i>Entrepreneurship in veterinary medicine</i>	V675DFU01	FC	II	C	2
13	<i>Biostatistics applied in veterinary medicine</i>	V675DFS07	FC	II	C	2
14	<i>Control of residues in foodstuffs</i>	V675DFS08	FC	II	C	2
						<b>38</b>
<b>TOTAL</b>						<b>70</b>



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6th Year of Study - Semester I						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Forensic Pathology and Diagnostic Necropsy 1	V676DOS01	CC	I	E	4
2	Pharmacy	V676DOS03	CC	I	E	3
3	Legislation in Veterinary Medicine	V676DOS05	CC	I	E	2
4	Therapeutics	V676DOS06	CC	I	VP	2
5	Elaboration of the bachelor thesis	V676DOU01	CC	I	PV	1
6	Management of Livestock Diseases/ Clinical Lectures (Master degree-compulsory optional Module)	V706DOA01; V706DOA03; V706DOA05	CO	I	3E	18
	Management of Diseases of Pets, Sport and Exotic Animals/ Clinical Lectures (Master degree-compulsory optional Module)	V716DOA01; V716DOA03; V716DOA05				
	Management of Animal Husbandry and Welfare; Management of Foodstuff Quality and Safety (Master degree-compulsory optional Module)	V726DOA01; V726DOA03; V726DOA05				
	Emergencies in Animal Medicine (Master degree-compulsory optional Module)	V736DOA01; V736DOA03; V736DOA05				
<b>I.6</b>			<b>CO</b>	<b>I</b>	<b>3E</b>	<b>18</b>
6,1	Management of swine diseases 1	V706DOA01		I	E	6
6,2	Management of avian diseases 1	V706DOA03		I	E	6
6,3	Management of ruminant diseases 1	V706DOA05		I	E	6
<b>II.6</b>			<b>CO</b>	<b>I</b>	<b>3E</b>	<b>18</b>
6,1	Management of equine diseases 1	V716DOA01		I	E	6
6,2	Management of canine and feline diseases 1	V716DOA03		I	E	6
6,3	Management of diseases of zoo-captive and nature reserve animals 1	V716DOA05		I	E	6
<b>III.6</b>			<b>CO</b>	<b>I</b>	<b>3E</b>	<b>18</b>
6,1	Management of animal husbandry 1	V726DOA01		I	E	6
6,2	Management of animal welfare 1	V726DOA03		I	E	6
6,3	Inspection and control in units specialized in obtaining and processing of foodstuffs of animal origin 1	V726DOA05		I	E	6
<b>IV.6</b>			<b>CO</b>	<b>I</b>	<b>3E</b>	<b>18</b>
6,1	Emergencies in pets 1	V736DOA01		I	E	6
6,2	Emergencies in livestock 1	V736DOA03		I	E	6
6,3	Emergencies in wildlife, exotics, nature reserve and zoo-captive animals 1	V736DOA05		I	E	6
						<b>30</b>
7	<i>Professional Communication</i>	V676DFS05	FC	I	C	2
8	<i>Conventional and Digital Report Techniques for Integration at workplace</i>	V676DFU02	FC	I	C	2
9	<i>Financial management of veterinary companies</i>	V676DFC02	FC	I	C	2
						<b>36</b>



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6th Year of Study - Semester II						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Forensic Pathology and Diagnostic Necropsy 2	V676DOS02	CC	II	PV	4
2	Deontology	V676DOS04	CC	II	PV	2
3	Practical Works in Units for Slaughtering and Processing of Foodstuffs	V676DOS07	CC	II	C	4
4	Management of Livestock Diseases/ Clinical Lectures (Master degree-compulsory optional Module)	V706DOA02; V706DOA04; V706DOA06	CO	II	3PV	10
	Management of Diseases of Pets, Sport and Exotic Animals/ Clinical Lectures (Master degree-compulsory optional Module)	V716DOA02; V716DOA04; V716DOA06				
	Management of Animal Husbandry and Welfare; Management of Foodstuff Quality and Safety (Master degree-compulsory optional Module)	V726DOA02; V726DOA04; V726DOA06				
	Emergencies in Animal Medicine (Master degree-compulsory optional Module)	V736DOA02; V736DOA04; V736DOA06				
<b>I.4</b>			<b>CO</b>	<b>II</b>	<b>3PV</b>	<b>10</b>
4,1	Management of swine diseases 2	V706DOA02		II	PV	4
4,2	Management of avian diseases 2	V706DOA04		II	PV	3
4,3	Management of ruminant diseases 2	V706DOA06		II	PV	3
<b>II.4</b>			<b>CO</b>	<b>II</b>	<b>3PV</b>	<b>10</b>
4,1	Management of equine diseases 2	V716DOA02		II	PV	4
4,2	Management of canine and feline diseases 2	V716DOA04		II	PV	3
4,3	Management of diseases of zoo-captive and nature reserve animals 2	V716DOA06		II	PV	3
<b>III.4</b>			<b>CO</b>	<b>II</b>	<b>3PV</b>	<b>10</b>
4,1	Management of animal husbandry 2	V726DOA02		II	PV	4
4,2	Management of animal welfare 2	V726DOA04		II	PV	3
4,3	Inspection and control in units specialized in obtaining and processing of foodstuffs of animal origin 2	V726DOA06		II	PV	3
<b>IV.4</b>			<b>CO</b>	<b>II</b>	<b>3PV</b>	<b>10</b>
4,1	Emergencies in pets 2	V736DOA02		II	PV	4
4,2	Emergencies in livestock 2	V736DOA04		II	PV	3
4,3	Emergencies in wildlife, exotics, nature reserve and zoo-captive animals 2	V736DOA06		II	PV	3
						<b>20</b>
5	Intramural and Extramural Practical Training 6	V676DOS09	CC	II	C	10
						<b>30</b>
6	<i>Experimental Parasitology</i>	V676DFS02	FC	II	PV	2
7	<i>Antimicrobial resistance</i>	V676DFS06	FC	II	PV	2
						<b>34</b>



# **Faculty of Land Reclamation and Environmental Engineering**







Faculty of Land Reclamation and Environmental Engineering  
 Specialization: Bachelor in **LAND RECLAMATION  
 AND RURAL DEVELOPMENT**  
 EQF LEVEL: 6  
 Field of study: **Civil Engineering**

ISCED CODE: **0732**  
 Duration: 4 years, 240 ECTS  
 Full-time learning  
 Language of teaching: Romanian

1st Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Algebra, analytic geometry, differential geometry	1DF / AGAGD-1	CC	I	E	4
2	Applied informatics	2DF / IA-1	CC	I	E	4
3	Descriptive geometry	4DF / GD-1	CC	I	E	4
4	General course in land reclamation	5DS / CGIF-1	CC	I	E	5
5	Mathematical analysis	6DF / AM-1-2	CC	I	E	5
6	Physical education	7DC / EF-1-2	CC	I	C / A/R	2
7	Chemistry	10DF / C-2	CC	I	C	4
8	Foreign languages: English/ French/ German/ Italian/ Spanish	14DC / LS-1-2	CO	I	C	2
						<b>30</b>
9	<i>Philosophy</i>	<i>16DC / Fil-1</i>	<i>FC</i>	<i>I</i>	<i>C</i>	2
10	<i>Voluntary Activities</i>	<i>17DC / AV-1</i>	<i>FC</i>	<i>I</i>	<i>C</i>	2
						<b>34</b>
1	Physics	3DF / F-2	CC	II	C	3
2	Mathematical analysis	6DF / AM-1-2	CC	II	E	4
3	Physical education	7DC / EF-1-2	CC	II	C / A/R	1
4	Numerical methods	8DF / MN-2	CC	II	E	4
5	Technical drawing and infographics I	9DF / DTI-2	CC	II	C	1
6	Building materials	11DD / MC-2	CC	II	E	4
7	Mechanics	12DD / M-2	CC	II	E	3
8	Topography	13DD / T-2	CC	II	E	4
9	Foreign languages: English/ French/ German/ Italian/ Spanish	14DC / LS-1-2	CO	II	C	2
						<b>26</b>
10	Practical training – Topographic practice	15DD / P-1.1	CC	II	C	4
11	Practical training – Technological practice	15DD / TP-1.2/ TEHN	CC	II		
						<b>30</b>
12	<i>Voluntary Activities</i>	<i>17DC / AV-1</i>	<i>FC</i>	<i>II</i>	<i>C</i>	2
						<b>32</b>
	<b>TOTAL</b>					<b>66</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected



Faculty of Land Reclamation and Environmental Engineering  
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2nd Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Differential equations	1DF / ED-3	CC	I	E	5
2	Technical drawing and infographics II	2DF / DTI-II-3	CC	I	C	2
3	Meteorology and climatology	3DD / MC-3	CC	I	C	4
4	Physics	4DF / F-3	CC	I	C	3
5	Fluid mechanics	5DD / MF-3	CC	I	E	5
6	Introduction to soil science, soil improvement	6DD / PGA-3	CC	I	C	4
7	Strength of materials	7DD / RM-3-4	CC	I	E	3
8	Topographic engineering (Module I)	14DD / TI-3	CO	I	C	4
9	Machines and equipment for land reclamation (Modul I)	14DD / MIC-3				
						<b>30</b>
10	<i>Voluntary Activities</i>	16DC / AV2	FC	I	C	2
						<b>32</b>
7	Strength of materials	7DD / RM-3-4	CC	II	E	4
8	Geotechnics	8DD / G-I-4	CC	II	E	4
9	Hydraulics	9DD / H-4	CC	II	E	4
10	Hydrology and hydrogeology	10DD / HH-4	CC	II	C	3
11	Introduction to agriculture	11DS / AG-4	CC	II	C	2
12	Theory of statics and construction stability	12DD / SSC-4	CC	II	E	3
13	Geographic information systems	13DD / GIS-4	CC	II	E	4
16	Introduction to economy (Module II)	15DC / EG-4	CO	II	C	2
17	Organizational rules and ethics of engineering careers	15DC / OEPI-4				
18	Communication techniques (Module II)	15DC / TC-4				
						<b>26</b>
19	Practical Training – Technological practice	15DD / P-2.1/ TEHN	CC	II	C	4
						<b>30</b>
20	<i>Voluntary Activities</i>	16DC / AV2	FC	II	C	2
						<b>32</b>
	<b>TOTAL</b>					<b>64</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

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3rd Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Waterways civil engineering	1DS / RRI-5	CC	I	E	2
2	Waterways civil engineering – project	1DS / RRI-5-pr	CC	I	P	2
3	Water resources management	2DS / GRA-5	CC	I	E	4
4	Rural constructions	3DD / CR-5	CC	I	E	2
5	Rural constructions – project	3DD / CR-5-pr	CC	I	P	2
6	Foundations	4DD / F-II-5	CC	I	E	4
7	Hydrotechnical constructions	5DS / CH-5-6	CC	I	C	4
8	Hydraulic machines and pumping stations	6DS / MHSP-5-6	CC	I	E	4
9	Reinforced and prestressed concrete	7DD / BAP-5-6	CC	I	C	4
10	Sociology (Module I)	11DC / S-5	CO	I	C	2
	Internal auditing (Module I)	11DC / AI-5				
						<b>30</b>
11	<i>Voluntary Activities</i>	<i>16DC / AV3</i>	<i>FC</i>	<i>I</i>	<i>C</i>	2
12	<i>Entrepreneurship</i>	<i>17DC / A-5-6</i>	<i>FC</i>	<i>I</i>	<i>C</i>	2
						<b>34</b>
1	Hydrotechnical constructions	5DS / CH-5-6	CC	II	E	3
2	Hydraulic machines and pumping stations	6DS / MHSP-5-6	CC	II	E	2
3	Hydraulic machines and pumping stations - project	6DS / MHSP-6-pr	CC	II	P	2
4	Reinforced and prestressed concrete	7DD / BAP-5-6	CC	II	E	2
5	Reinforced and prestressed concrete – project	7DD / BAP-6-pr	CC	II	P	2
6	Irrigations I	8DS / Ir-I-6	CC	II	C	4
7	Drainage I	9DS / DD-I-6	CC	II	C	4
8	Soil erosion control I	10DS / CES-I-6	CC	II	C	4
9	Project management (Module II)	12DD / MP-6	CO	II	C	3
	Civil engineering legislation (Module II)	12DD / LC-6				
						<b>26</b>
10	Practical training	13DS / P-3.1/SPEC	CC	II	C	4
						<b>30</b>
11	<i>Voluntary Activities</i>	<i>16DC / AV3</i>	<i>FC</i>	<i>II</i>	<i>C</i>	2
12	<i>Entrepreneurship</i>	<i>17DC / A-5-6</i>	<i>FC</i>	<i>II</i>	<i>C</i>	2
						<b>34</b>
						<b>68</b>

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4th Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Irrigations II	1DS / Ir-II-7	CC	I	E	3
2	Irrigations II – project	1DS / Ir-II-7-pr	CC	I	P	2
3	Drainage II	2DS / DD-II-7	CC	I	E	3
4	Drainage II – project	2DS / DD-II-7-pr	CC	I	P	2
5	Soil erosion control II	3DS / CES-II-7	CC	I	E	3
6	Soil erosion control II – project	3DS / CES-II-7-pr	CC	I	P	2
7	RoadS design	4DD / CC-7	CC	I	E	5
8	Water supplies and sewerage	5DS / AAC-7-8	CC	I	C	4
9	Land reclamation technologies	6DS / TLIF-7-8	CC	I	C	3
10	Land reclamation management	7DS / MLIF-7-8	CC	I	C	3
						<b>30</b>
11	<i>Foreign languages: English/ French/ German/ Italian/ Spanish</i>	<i>15DC / LS-7</i>	<i>FC</i>	<i>I</i>	<i>C</i>	4
12	<i>Entrepreneurship</i>	<i>16DC / A-7</i>	<i>FC</i>	<i>I</i>	<i>C</i>	3
						<b>37</b>
1	Water supplies and sewerage	5DS / AAC-7-8	CC	II	E	5
2	Land reclamation technologies	6DS / TLIF-7-8	CC	II	E	5
3	Land reclamation management	7DS / MLIF-7-8	CC	II	C	2
4	Rural development	8DD / DR-8	CC	II	E	3
5	Land reclamation facility operation and maintenance	9DS / EILIF-8	CC	II	E	3
6	Database management systems (Module I)	10DD / SGBD-8	CO	II	C	2
	Environmental engineering (Module I)	10DD / IM-8				
7	Risk evaluation (Module II)	11DD / ER-8	CO	II	C	2
	Remote sensing use in rural area (Module II)	11DD / UTSR-8				
8	Environmental legislation for land reclamation works (Module III)	12DC / LMLIF-8	CO	II	C	2
	European culture, civilization and institutions (Module III)	12DC / CCIE-8				
						<b>24</b>
9	Practical training for the elaboration of the diploma project	13DS / P-EPD/ IF-2	CC	II	C	2
10	Elaboration of the diploma project	14DS / EPD-IF-2	CC	II	C	4
						<b>30</b>
	<b>TOTAL</b>					<b>67</b>
	Diploma exam	17DS / ED-IF	-	II	E+Pr	10



Faculty of Land Reclamation and Environmental Engineering  
 Specialization: Bachelor in **ENGINEERING AND ENVIRONMENTAL PROTECTION IN AGRICULTURE**  
 EQF LEVEL: 6  
 Field of study: **Environmental Engineering**

ISCED CODE: **0520/0712**  
 Duration: 4 years, 240 ECTS  
 Full-time learning  
 Language of teaching: Romanian

1st Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Algebra, analytic geometry, differential geometry	1 DF / AGAGD-1	CC	I	E	4
2	Applied informatics	2 DF / IA-1	CC	I	E	4
3	Physics	3 DF / F-1	CC	I	E	4
4	Chemistry	4 DF / C-1	CC	I	C	4
5	Environmental biochemistry	5 DD / BM-2	CC	I	E	3
6	Mathematical analysis	6 DF / AM-1-2	CC	I	E	4
7	Computer-assisted design	7 DF / GAC-1-2	CC	I	E	3
8	Physical education	8 DC / EF-1-2	CC	I	C / A/R	2
9	Foreign languages: English/ French/ German/ Italian/ Spanish	14 DC / LS-1-2	CO	I	C	2
						<b>30</b>
10	<i>Philosophy</i>	16 DC / Fil-1	FC	I	C	2
						<b>32</b>
1	Mathematical analysis	6 DF / AM-1-2	CC	II	E	4
2	Computer-assisted design	7 DF / GAC-1-2	CC	II	C	1
3	Physical education	8 DC / EF-1-2	CC	II	C / A/R	1
4	Numerical methods	9 DF / MN-2	CC	II	E	4
5	Ecology	10 DF / EC-1	CC	II	C	4
6	Materials science and engineering	11 DD / SIM-2	CC	II	E	4
7	Mechanics	12 DD / M-2	CC	II	E	3
8	Environmental microbiology	13 DD / MM-2	CC	II	E	3
9	Foreign languages: English/ French/ German/ Italian/ Spanish	14 DC / LS-1-2	CO	II	C	2
						<b>26</b>
10	Practical training – Computer-assisted design	15 DD / P-1/GAC	CC	II	C	4
	Practical training – Ecology	15 DD / P-2/EC				
	Practical training – Environmental biochemistry	15 DD / P-3/BM				
						<b>30</b>
<b>TOTAL</b>						<b>62</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected



Faculty of Land Reclamation and Environmental Engineering  
 Specialization: Bachelor in **ENGINEERING AND ENVIRONMENTAL PROTECTION IN AGRICULTURE**  
 EQF LEVEL: 6  
 Field of study: **Environmental Engineering**

ISCED CODE: **0520/0712**  
 Duration: 4 years, 240 ECTS  
 Full-time learning  
 Language of teaching: Romanian

2nd Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Differential equations	1 DF / ED-3	CC	I	E	4
2	Environmental microbiology	2 DD / MM-3	CC	I	C	3
3	Meteorology and climatology	3 DD / MC-3	CC	I	C	4
4	Water and soil biology	4 DS / BAS-3	CC	I	E	3
5	Fluid mechanics	5 DD / MF-3	CC	I	E	5
6	Introduction to soil science, soil improvement	6 DD / PGA-3	CC	I	C	4
7	Ecology	7 DF / E-3	CC	I	C	2
8	Polluting sources, processes and products	8 DD / SPPP-3-4	CC	I	E	5
						<b>30</b>
1	Polluting sources, processes and products	8 DD / SPPP-3-4	CC	II	E	3
2	Geology	9 DD / G-4	CC	II	E	4
3	Hydraulics	10 DD / H-4	CC	II	E	4
4	Hydrology and hydrogeology	11 DD / HH-4	CC	II	E	4
5	Topography	12 DD / T-4	CC	II	E	4
6	Physico-chemical methods of analysis	13 DD / MFCA-4	CC	II	C	2
7	Ecological management	14 DD / ME-4	CC	II	C	3
8	Introduction to economy (Module I)	15 DC / EG-4	CO	II	C	2
	Communication techniques (Module I)	15 DC / TC-4				
						<b>26</b>
9	Practical Training – Hydraulics	16 DD / P-1/H	CC	II	C	4
	Practical Training – Laboratory analysis	16 DD / P-2/AL				
						<b>30</b>
<b>TOTAL</b>						<b>60</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected



Faculty of Land Reclamation and Environmental Engineering  
 Specialization: Bachelor in **ENGINEERING AND ENVIRONMENTAL PROTECTION IN AGRICULTURE**  
 EQF LEVEL: 6  
 Field of study: **Environmental Engineering**

ISCED CODE: **0520/0712**  
 Duration: 4 years, 240 ECTS  
 Full-time learning  
 Language of teaching: Romanian

3rd Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Waterway civil engineering	1 DD / RRI-5	CC	I	E	2
2	Waterway civil engineering – project	1 DD / RRI-5-pr	CC	I	P	2
3	Water resources management	2 DS / GRA-5	CC	I	E	5
4	Hydraulic machines and equipment	3 DS / MEH-5	CC	I	E	5
5	Degraded lands reclamation	4 DS / ATD-6	CC	I	E	4
6	Renewable energy sources	5 DS / ER-5	CC	I	C	4
7	Land reclamation	6 DS / IF-5-6	CC	I	E	4
8	Environmental project management (Module I)	12 DD / MPM-5	CO	I	E	4
	Organic waste management (Module I)	12 DD / MDO-5				
						<b>30</b>
9	<i>Entrepreneurship</i>	15 DC / A-5-6	FC	I	C	2
						<b>32</b>
1	Land reclamation	6 DS / IF-5-6	CC	II	E	2
2	Land reclamation – project	6 DS / IF-6-pr		II	P	2
3	Geographic information systems	7 DS / SIG-6	CC	II	C	4
4	Hydraulic schemes and works	8 DD / ACH-6	CC	II	E	4
5	Water supplies and sewerage	9 DS / AAC-6	CC	II	E	2
6	Water supplies and sewerage - project	9 DS / AAC-6-pr	CC	II	P	2
7	Pollutants difusion and dispersion	10 DS / DDP-6	CC	II	E	4
8	Environmental investigation	11 DD / IFM-6	CC	II	E	3
9	Environmental chemistry (Module II)	13 DD / CM-6	CO	II	C	3
	Ecotoxicology (Module II)	13 DD / ET-6				
						<b>26</b>
10	Practical training	14 DS / PS-6	CC	II	C	4
						<b>30</b>
11	<i>Entrepreneurship</i>	15 DC / A-5-6	FC	II	C	2
						<b>32</b>
<b>TOTAL</b>						<b>64</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected



Faculty of Land Reclamation and Environmental Engineering  
 Specialization: Bachelor in **ENGINEERING AND ENVIRONMENTAL PROTECTION IN AGRICULTURE**  
 EQF LEVEL: 6  
 Field of study: **Environmental Engineering**

ISCED CODE: **0520/0712**  
 Duration: 4 years, 240 ECTS  
 Full-time learning  
 Language of teaching: Romanian

4th Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Ecological reconstruction	1 DS / RE-7	CC	I	C	4
2	Wastewater treatment	2 DS / EAU-7	CC	I	E	2
3	Wastewater treatment - project	2 DS / EAU-7-pr	CC	I	P	2
4	Work technologies in environmental engineering	3 DS / TELIM-7	CC	I	E	4
5	Environmental investigation	4 DD / IFM-7	CC	I	C	4
6	Integrated waste management	5 DD / MID-7	CC	I	E	2
7	Integrated waste management - project	5 DD / MID-7-pr	CC	I	P	2
8	Soil erosion control	6 DS / CES-7-8	CC	I	E	5
9	Environmental impact assessment and auditing	7 DS / SIBAM-7-8	CC	I	E	5
						<b>30</b>
10	Foreign languages: English/ French/ German/ Italian/ Spanish	14 DC / LS-7	FC	I	C	4
11	Entrepreneurship	15 DC / A-7	FC	I	C	2
						<b>36</b>
1	Work technologies in environmental engineering	3 DS / TELIM-7	CC	II	E	3
2	Soil erosion control	6 DS / CES-7-8	CC	II	E	5
3	Environmental impact assessment and auditing	7 DS / SIBAM-7-8	CC	II	E	5
4	Project optimization by GIS usage	8 DS / OPU GIS-8	CC	II	E	3
5	Environmental protection by sustainable agriculture (Module I)	9 DS / PMAD-8	CO	II	E	3
	Environmental protection by hydro-amelioration works (Module I)	9 DS / PMH-8				
6	Information technology (Module II)	10 DD / TI-8	CO	II	E	3
	Remote sensing and atmospheric risks (Module II)	10 DD / TRA-8				
7	Environmental policies and legislation (Module III)	11 DC / PLM-8	CO	II	C	2
	European culture, civilization and institutions (Module III)	11 DC / CCIE-8				
						<b>24</b>
8	Practical training for the elaboration of the diploma project	12 DS / P-EPD-8	CC	II	C	2
9	Elaboration of the diploma project	13 DS / EPD-8	CC	II	C	4
						<b>30</b>
	<b>TOTAL</b>					<b>66</b>
	Diploma exam	15 DS / ED	-	II	E+Pr	10





Faculty of Land Reclamation and Environmental Engineering  
 Specialization: Bachelor in **CIVIL ENGINEERING AND MANAGEMENT**  
 EQF LEVEL: 6  
 Field of study: **Management and Engineering**

ISCED CODE: **0788**  
 Duration: 4 years, 240 ECTS  
 Full-time learning  
 Language of teaching: Romanian

1st Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Algebra, analytic geometry, differential geometry	1 DF / AGAGD-1	CC	I	E	4
2	Applied informatics	2 DF / IA-1	CC	I	E	4
3	Physics	3 DF / F-1	CC	I	C	4
4	Descriptive geometry	4 DF / GD-1	CC	I	E	4
5	Fundamentals of economy	5 DF / BEc-1	CC	I	C	5
6	Mathematical analysis	6 DF / AM-1-2	CC	I	E	5
7	Physical education I, II	7 DC / EF-1-2	CC	I	C / A/R	2
8	Foreign languages: English/ French/ German/ Italian/ Spanish	14 DC / LM-1-2	CO	I	C	2
						<b>30</b>
9	<i>Philosophy</i>	<i>16 DC / Fil-1</i>	<i>FC</i>	<i>I</i>	<i>C</i>	2
						<b>32</b>
1	Mathematical analysis	6 DF / AM-1-2	CC	II	E	4
2	Physical education I, II	7 DC / EF-1-2	CC	II	C / A/R	1
3	Numerical methods	8 DF / MN-2	CC	II	E	4
4	Technical drawing and infographics I	9 DF / DTI-I-2	CC	II	C	1
5	Chemistry	10 DF / C-2	CC	II	C	3
6	Building materials	11 DD-ING / MC-2	CC	II	E	4
7	Mechanics and strength of materials I	12 DD-ING / MRM-2	CC	II	E	3
8	Marketing	13 DD-ME / M-2	CC	II	E	4
9	Foreign languages: English/ French/ German/ Italian/ Spanish	14 DC / LM-1-2	CO	II	C	2
						<b>26</b>
10	Legal practical training	15 DD-J / PDJ-2	CC	II	C	4
						<b>30</b>
	<b>TOTAL</b>					<b>62</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected



Faculty of Land Reclamation and Environmental Engineering  
 Specialization: Bachelor in **CIVIL ENGINEERING AND MANAGEMENT**  
 EQF LEVEL: 6  
 Field of study: **Management and Engineering**

ISCED CODE: **0788**  
 Duration: 4 years, 240 ECTS  
 Full-time learning  
 Language of teaching: Romanian

2nd Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Differential equations	1 DF / ED-3	CC	I	E	3
2	Technical drawing and infographics	2 DF / DTI-II-3	CC	I	C	2
3	Fundamentals of accounting, cost and price calculation	3 DS-ME / BCCPC-3	CC	I	E	4
4	Hydraulics I, II	5 DD-ING / H-3-4	CC	I	E	4
5	Mechanics and strength of materials II, III	6 DD-ING / MRM-3-4	CC	I	E	4
6	Topography	10 DS-ING / T-3-4	CC	I	E	4
7	Real estate evaluation (Module I)	11 DS-ME / EPI-3	CO	I	C	4
	Landscape management (Module I)	11 DS-ME / MUAT-3				
8	Finance and credit (Module II)	12 DS-ME / FC-3	CO	I	C	5
	Investments efficiency (Module II)	12 DS-ME / EI-3				
						<b>30</b>
9	<i>Organizational culture</i>	<i>14 DC / CO-3</i>	<i>FC</i>	<i>I</i>	<i>C</i>	2
						<b>32</b>
1	Civil engineering machinery and equipment	4 DS-ING / MIC-3	CC	II	C	4
2	Hydraulics I, II	5 DD-ING / H-3-4	CC	II	E	4
3	Mechanics and strength of materials II, III	6 DD-ING / MRM-3-4	CC	II	E	4
4	Industrial and intellectual property legislation	7 DD-J / LPPII-4	CC	II	E	4
5	Geotechnics	8 DD-ING / G-4	CC	II	E	3
6	Construction statics	9 DD-ING / SC-4	CC	II	E	4
7	Topography	10 DS-ING / T-3-4	CC	II	E	3
						<b>26</b>
8	Practical Training	13 DS / PS-4	CC	II	C	4
						<b>30</b>
9	<i>Architectural elements</i>	<i>15 DD / EA-4</i>	<i>FC</i>	<i>II</i>	<i>C</i>	4
						<b>34</b>
	<b>TOTAL</b>					<b>66</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected



Faculty of Land Reclamation and Environmental Engineering  
 Specialization: Bachelor in **CIVIL ENGINEERING AND MANAGEMENT**  
 EQF LEVEL: 6  
 Field of study: **Management and Engineering**

ISCED CODE: **0788**  
 Duration: 4 years, 240 ECTS  
 Full-time learning  
 Language of teaching: Romanian

3rd Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Civil engineering	1 DS -ING / CC-5	CC	I	E	2
2	Civil engineering – project	1 DS -ING / CC-5-pr	CC	I	P	2
3	Foundation systems and technologies	2 DS-ING / FPF-5	CC	I	E	2
4	Foundation systems and technologies – project	2 DS-ING / FPF-5-pr	CC	I	P	2
5	Technologies for hydraulic and land reclamation works I, II	3 DS-ING / TCHIF-5-6	CC	I	C	4
6	Reinforced concrete I, II	4 DD-ING / B-5-6	CC	I	C	4
7	Investment management	5 DD-ME / MI-5	CC	I	E	4
8	Materials technology	6 DD-ING / TM-5	CC	I	E	4
9	Financial management (Module I)	9 DD-ME / MF-5-6	CO	I	E	2
	Project management (Module I)	9 DD-ME / MP-5-6				
10	Logistic management (Module II)	10 DD-ME / ML-5	CO	I	E	4
	Environmental management (Module II)	10 DD-ME / MM-5				
						<b>30</b>
11	<i>Organizational culture</i>	13 DC / CO-5-6	FC	I	C	2
						<b>32</b>
1	Technologies for hydraulic and land reclamation works I, II	3 DS-ING / TCHIF-5-6	CC	II	E	2
2	Technologies for hydraulic and land reclamation works - project	3 DS-ING / TCHIF-6-pr	CC	II	P	2
3	Reinforced concrete	4 DD-ING / B-5-6	CC	II	E	2
4	Reinforced concrete – project	4 DD-ING / B-6-pr	CC	II	P	2
5	Technology and management I	7 DS-ME / TM-I-5	CC	II	E	4
6	Offer and contracting activities in civil engineering I	8 DS-ME / OCC-I-6	CC	II	E	4
7	Financial management (Module I)	9 DD-ME / MF-5-6	CO	II	E	4
	Project management (Module I)	9 DD-ME / MP-5-6				
8	Logistic management (Module II)	10 DD-ME / ML-5	CO	II	C	4
	Environmental management (Module II)	10 DD-ME / MM-5				
9	Sociology (Module III)	11 DC / S-6	CO	II	C	2
	Environmental protection (Module III)	11 DC / PM-6				
						<b>26</b>
10	Practical Training	12 DS-ING / PS-6	CC	II	C	4
						<b>30</b>
11	<i>Organizational culture</i>	13 DC / CO-5-6	FC	II	C	2
12	<i>Computer-assisted design</i>	14 DS-ING / PAC-6	FC	II	C	4
13	<i>Entrepreneurship</i>	15 DC / A-6	FC	II	C	2
						<b>38</b>
	<b>TOTAL</b>					<b>70</b>



Faculty of Land Reclamation and Environmental Engineering  
Specialization: Bachelor in **CIVIL ENGINEERING AND MANAGEMENT**  
EQF LEVEL: 6  
Field of study: **Management and Engineering**

ISCED CODE: **0788**  
Duration: 4 years, 240 ECTS  
Full-time learning  
Language of teaching: Romanian

4th Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Civil engineering installation works	1 DS-ING / IC-7-8	CC	I	E	3
2	Civil engineering installation works - project	1 DS-ING / IC-7-8-pr	CC	I	P	2
3	Roads design	2 DS-ING / CCT-7	CC	I	E	3
4	Roads design - project	2 DS-ING / CCT-7-pr	CC	I	P	2
5	Tecnology and management II, III	3 DS-ME / TM-7-8	CC	I	E	4
7	Operational research	4 DD-ME / CO-7	CC	I	E	4
8	Technologies for hydraulic and land reclamation works III	5 DS-ING / TCHIF-7	CC	I	C	2
9	Technologies for hydraulic and land reclamation works - project	5 DS-ING / TCHIF-7-pr	CC	I	P	2
10	Quality management	6 DD-ME / MC-7-8	CC	I	C	4
11	Offer and contracting activities in civil engineering II	7 DS-ME / OCC-II-7	CC	I	E	4
						<b>30</b>
12	<i>Foreign languages: English/ French/ German/ Italian/ Spanish</i>	<i>13 DC / LM-7</i>	<i>FC</i>	<i>I</i>	<i>C</i>	4
13	<i>Organizational psychosociology</i>	<i>14 DC / PO-7</i>	<i>FC</i>	<i>I</i>	<i>C</i>	4
14	<i>Entrepreneurship</i>	<i>15 DC / A-7</i>	<i>FC</i>	<i>I</i>	<i>C</i>	2
						<b>40</b>
1	Civil engineering installation works	1 DS-ING / IC-7-8	CC	II	E	3
2	Civil engineering installation works - project	1 DS-ING / IC-7-8-pr	CC	II	P	2
3	Tecnology and management II, III	3 DS-ME / TM-7-8	CC	II	E	3
4	Tecnology and management - project	3 DS-ME / TM-7-8-pr	CC	II	P	2
5	Quality management	6 DD-ME / MC-7-8	CC	II	E	3
6	Business administration and law	8 DS-J / DAA-8	CC	II	C	3
7	Real estate law	9 DS-J / DP-8	CC	II	E	3
8	Safety in construction	10 DD-ING / SC-8	CC	II	C	3
9	Human Resource Management (Module I)	11 DD-ME / MRU-8	CO	II	C	2
10	International management (Module I)	11 DD-ME / MInt-8				
						<b>24</b>
11	Practical training for the elaboration of the diploma project	12 DS / PPD-8	CC	II	C	6
12	Elaboration of the diploma project	12 DS / EPD-8				
						<b>30</b>
	<b>TOTAL</b>					<b>70</b>
	Diploma exam	15 DS / ED-IMC-8	-	II	E+Pr	10



Faculty of Land Reclamation and Environmental Engineering  
 Specialization: Bachelor in **LAND MEASUREMENT AND CADASTRE**  
 EQF LEVEL: 6  
 Field of study: **Geodetic Engineering**

ISCED CODE: **0532**  
 Duration: 4 years, 240 ECTS  
 Full-time learning  
 Language of teaching: Romanian

1st Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Applied informatics	1 DF / IA-1	CC	I	E	4
2	Physics	2 DF / F-1	CC	I	C	4
3	Descriptive geometry	3 DF GD-1	CC	I	E	4
4	Geodetic tools and measurement methods	4 DD / IGMM-1-2	CC	I	E	5
5	Algebra, analytic geometry, differential geometry	5 DF / AGAGD-1-2	CC	I	E	5
6	Mathematical analysis	6 DF / AM-1-2	CC	I	E	4
7	Physical education	7 DC / EF-1-2	CC	I	C/ A/R	2
8	Foreign languages: English/ French/ German/ Italian/ Spanish	11 DC / LS-1-2	CO	I	C	2
						<b>30</b>
9	<i>Philosophy</i>	<i>13 DC / Fil-1</i>	<i>FC</i>	<i>I</i>	<i>C</i>	2
						<b>32</b>
1	Geodetic tools and measurement methods	4 DD / IGMM-1-2	CC	II	E	4
2	Algebra, analytic geometry, differential geometry	5 DF / AGAGD-1-2	CC	II	E	3
3	Mathematical analysis	6 DF / AM-1-2	CC	II	E	4
4	Physical education	7 DC / EF-1-2	CC	II	C / A/R	1
5	Numerical methods	8 DF / MN-2	CC	II	E	4
6	Technical drawing and infographics	9 DF / DTI-2	CC	II	C	4
7	Geodesy	10 DD / G-2	CC	II	E	4
8	Foreign languages: English/ French/ German/ Italian/ Spanish	11 DC / LS-1-2	CO	II	C	2
						<b>26</b>
9	Practical training – Topography	12 DD / P/Topo	CC	II	C	4
						<b>30</b>
<b>TOTAL</b>						<b>62</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected



Faculty of Land Reclamation and Environmental Engineering  
 Specialization: Bachelor in **LAND MEASUREMENT AND CADASTRE**  
 EQF LEVEL: 6  
 Field of study: **Geodetic Engineering**

ISCED CODE: **0532**  
 Duration: 4 years, 240 ECTS  
 Full-time learning  
 Language of teaching: Romanian

2nd Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Differential equations	1 DF / ED-3	CC	I	C	2
2	Geometric principles applied to photogrammetry	2 DD / BGF-3	CC	I	E	5
3	Geodesy	3 DD / G-3	CC	I	E	4
4	Technical drawing and infographics	4 DF / DTI-3	CC	I	C	2
5	Informatic systems applied to land measurement	5 DD / SIMT-3-4	CC	I	C	5
6	Topography	6 DD / T-3-4	CC	I	E	4
7	Electromagnetic geodetic measurement	7 DD / MGU-3-4	CC	I	E	4
8	Measurement compensation	8 DD / CM-3-4	CC	I	E	4
						<b>30</b>
1	Informatic systems applied to land measurement	5 DD / SIMT-3-4	CC	II	E	4
2	Topography	6 DD / T-3-4	CC	II	E	2
3	Topography - project	6 DD / T-4-pr	CC	II	P	2
4	Electromagnetic geodetic measurement	7 DD / MGU-3-4	CC	II	E	4
5	Measurement compensation	8 DD / CM-3-4	CC	II	E	4
6	Photogrammetry 1	9 DD / F-4	CC	II	C	2
7	Hydrology and hydrogeology	10 DS / HH-4	CC	II	E	3
8	Introduction to civil engineering	11 DD / CGC-4	CC	II	C	3
9	Introduction to economy (Module I)	12 DC / EG-4	CO	II	C	2
	Communication techniques (Module I)	12 DC / TC-4				
						<b>26</b>
10	Practical Training – Photogrammetry	13 DD / P-1/F	CC	II	C	4
	Practical Training – GIS	13 DD / P-1/FA				
	Practical Training – Topography	13 DD / P-1/FA				
						<b>30</b>
	<b>TOTAL</b>					<b>60</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected



Faculty of Land Reclamation and Environmental Engineering  
Specialization: Bachelor in **LAND MEASUREMENT AND CADASTRE**  
EQF LEVEL: 6  
Field of study: **Geodetic Engineering**

ISCED CODE: **0532**  
Duration: 4 years, 240 ECTS  
Full-time learning  
Language of teaching: Romanian

3rd Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Photogrammetry 2	1 DD / F-5	CC	I	E	4
2	Cartographic projections	2 DS / PC-5	CC	I	E	4
3	Environmental protection	3 DC / PM-5	CC	I	C	4
4	Informatic systems applied to land measurement	4 DD / SIMT-5	CC	I	C	4
5	Land reclamation	5 DS / IF-5	CC	I	E	4
6	Cadastrre	6 DD / CAD-5-6	CC	I	E	5
7	Ellipsoidal geodesy	7 DD / GE-5-6	CC	I	E	5
						<b>30</b>
8	<i>Entrepreneurship</i>	15 DC / A-5-6	FC	I	C	2
						<b>32</b>
1	Cadastrre	6 DD / CAD-5-6	CC	II	E	2
2	Cadastrre – project	6 DD / CAD-6-pr	CC	II	P	2
3	Ellipsoidal geodesy	7 DD / GE-5-6	CC	II	E	2
4	Ellipsoidal geodesy – project	7 DD / GE-6-pr	CC	II	P	2
5	Construction and land monitoring	8 DS / UCTC-6	CC	II	E	4
6	Remote sensing	9 DS / T-6	CC	II	E	4
7	Hydraulic works and local water utilities	10 DD / CHRH-6	CC	II	E	3
8	Sociology (Module I)	11 DC / S-6	CO	II	C	2
	Accounting (Module I)	11 DC / CONT-6				
9	Land management and ecology (Module II)	12 DD / OTE-6	CO	II	E	2
	Cartography (Module II)	12 DD / CARTO-6				
10	Engineering measurements (Module III)	13 DD / MI-6	CO	II	C	3
	Landscaping (Module III)	13 DD / AT-6				
						<b>26</b>
11	Practical Training	14 DS / PS-6	CC	II	C	4
						<b>30</b>
12	<i>Entrepreneurship</i>	15 DC / A-5-6	FC	II	C	2
						<b>32</b>
	<b>TOTAL</b>					<b>64</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected



Faculty of Land Reclamation and Environmental Engineering  
 Specialization: Bachelor in **LAND MEASUREMENT AND CADASTRE**  
 EQF LEVEL: 6  
 Field of study: **Geodetic Engineering**

ISCED CODE: **0532**  
 Duration: 4 years, 240 ECTS  
 Full-time learning  
 Language of teaching: Romanian

4th Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Special topographic levelling	1 DS / RTS-7	CC	I	E	2
2	Special topographic levelling – project	1 DS / RTS-7-pr	CC	I	P	2
3	Cartographic modelling 1	2 DS / MC1-7	CC	I	E	5
4	Roads design and artworks engineering	3 DD / CCLA-7	CC	I	E	4
5	Spatial geodesy techniques	5 DS / TGS-7	CC	I	C	5
6	Sonar, LIDAR and laser scan	8 DS / SLLS-7	CC	I	C	4
7	Radar technologies	10 DS / TR-7	CC	I	E	4
8	Sensors - measurement and processing technique (Module I)	11 DS / STMP-7-8	CO	I	E	4
	Geodetic automatic data-processing (Module I)	11 DS / PADG-7-8				
						<b>30</b>
9	<i>Foreign languages: English/ French/ German/ Italian/ Spanish</i>	<i>15 DC / LS-7</i>	<i>FC</i>	<i>I</i>	<i>C</i>	4
10	<i>Entrepreneurship</i>	<i>16 DC / A-7</i>	<i>FC</i>	<i>I</i>	<i>C</i>	2
						<b>36</b>
1	Earth observation organizations, programmes and applications	4 DS / OPAOP-8	CC	II	E	4
2	Spatial geodesy techniques	5 DS / TGS-7	CC	II	E	4
3	Law institutions and land register legislation	6 DS / IDLFC-8	CC	II	C	3
4	Management	7 DD / M-8	CC	II	C	2
5	Valuation of land and fixed assets	9 DS / EBI-8	CC	II	E	4
6	Sensors - measurement and processing technique (Module I)	11 DS / STMP-7-8	CO	II	E	4
	Geodetic automatic data-processing (Module I)	11 DS / PADG-7-8				
7	Spatial databases (Module II)	12 DS / BDG-8	CO	II	E	3
	Cartographic modelling 2 (Module II)	12 DS / MC2-8				
						<b>24</b>
8	Practical training for the elaboration of the diploma project	13 DS / PELD-8	CC	II	C	2
9	Elaboration of the diploma project	14 DS / EPD-8	CC	II	C	4
						<b>30</b>
	<b>TOTAL</b>					<b>66</b>
	Diploma exam	16 DS / ED	-	II	E+Pr	10

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected





Faculty of Land Reclamation and Environmental Engineering  
 Specialization: Professional Master's in **ENVIRONMENTAL PROTECTION  
 AND ENGINEERING IN RURAL AREAS**  
 EQF LEVEL: 7  
 Field of study: : **Environmental Engineering**

ISCED CODE: **0520/0712**  
 Duration: 2 years, 120 ECTS  
 Full-time learning  
 Language of teaching: Romanian

1st Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Policy and strategies for integrated rural development	1 DI / PSDRI-1	CC	I	C	6
2	Mathematical models for risk factors assessment	2 DI / MMEFR-1	CC	I	E	6
3	Utilization of renewable energy resources	3 DI / VRNE-1	CC	I	E	6
4	Integrated monitoring of environmental factors and processes (Module I)	7 DO / MIFPM-1	CO	I	E	6
	Advanced effluent treatment (Module I)	7 DO / TAEF-1				
5	Integrated water resources management (Module II)	8 DO / MIRA-1	CO	I	E	6
	Solutions for stabilizing natural and artificial slopes (Module II)	8 DO / SSTNA-1				
						<b>30</b>
1	Flood protection	4 DI / API-2	CC	II	E	8
2	Integrated technologies of horticultural ecosystems planning	5 DI / TIAEH-2	CC	II	E	8
3	Internal auditing	6 DI / AI-2	CC	II	C	6
4	Technologies of countryside planning (Module III)	9 DO / TAEX-2	CO	II	E	8
5	Reliability of environmental protection works (Module III)	9 DO / FLPM-2				
						<b>30</b>
	<b>TOTAL</b>					<b>60</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected



Faculty of Land Reclamation and Environmental Engineering  
 Specialization: Professional Master's in **ENVIRONMENTAL PROTECTION  
 AND ENGINEERING IN RURAL AREAS**  
 EQF LEVEL: 7  
 Field of study: : **Environmental Engineering**

ISCED CODE: **0520/0712**  
 Duration: 2 years, 120 ECTS  
 Full-time learning  
 Language of teaching: Romanian

2nd Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Recycling technology and waste recovery in rural areas	1 DI / TRVDR-3	CC	I	E	7
2	Seismic protection measures	2 DI / MPA-3	CC	I	E	7
3	Ethics and academic integrity	5 DI / EDP-3	CC	I	C	4
4	Land management information systems (Module II))	10 DO / SIAT-3	CO	I	E	6
	Tracing techniques and tehnologies for engineering works (Module II)	10 DO / TTTLI-3	CO	I		
5	Environmental effects of land reclamation works (Module III)	11 DO / ILIFAM-3	CO	I	E	6
	Automatic operation of the land reclamation systems (Module III)	11 DO / FASIF-3	CO	I		
						<b>30</b>
1	Environmental auditing	3 DI / ALM-4	CC	II	E	4
2	Heavy-metal pollution control	4 DI / ECPMG-4	CC	II	E	4
3	Rehabilitation of degraded agricultural lands	6 DI / RTAD-4	CC	II	E	4
4	Internship	7 DI / PP-4	CC	II	C	4
5	Practical training for the completion of the dissertation	8 DI / PED-4	CC	II	C	5
6	Completion of the dissertation	9 DI / ED-4	CC	II	C	5
7	Special foundations (Module I)	9 DO / FCS-4	CO	II	E	4
	Remote control and monitoring of rural areas (Module I)	9 DO / MSRT-4	CO	II		
						<b>30</b>
	<b>TOTAL</b>					<b>60</b>
	Dissertation exam	12 SD	-	II	E	10

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected



Faculty of Land Reclamation and Environmental Engineering  
 Specialization: Professional Master's in **GEOMATICS FOR ENVIRONMENTAL ENGINEERING**  
 EQF LEVEL: 7  
 Field of study: : **Environmental Engineering**

ISCED CODE: **0520/0712**  
 Duration: 2 years, 120 ECTS  
 Full-time learning  
 Language of teaching: Romanian

1st Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	European environmental directives	1 DI / DEM	CC	I	C	7
2	Climate changes - causes and effects	2 DI / SCCE	CC	I	E	8
3	Environmental law	3 DI / DM	CC	I	E	7
4	GIS systems design	4 DI / PSGIS	CC	I	E	8
						<b>30</b>
1	GIS systems design	4 DI / PSGIS	CC	II	E	6
2	Risk, hazard and vulnerability	5 DI / RHV	CC	II	C	6
3	Photointerpretation and 3D thematic cartography	6 DI / FCT3D	CC	II	E	6
4	Geodetic astronomy	7 DO / AG	CO	II	E	6
	Environmental european funds	7 DO / FEM				
5	Statistics of territory	8 DO / ST	CO	II	E	6
	Landscape analysis and management	8 DO / AGP				
						<b>30</b>
	<b>TOTAL</b>					<b>60</b>

2nd Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Sustainable management of soil and water resources	1 DI / MDRSA	CC	I	E	6
2	Geospatial applications for environment	2 DI / AGM	CC	I	E	6
3	Ecological mapping and applications	3 DI / CEA	CC	I	E	4
4	Structure measures impact on the environment	4 DI / IMSM	CC	I	E	6
5	Ethics and academic integrity	5 DI / EIA	CC	I	C	4
6	Environmental agreements, approvals and authorizations	9 DO / AAAM	CO	I	E	4
	Environmental quality monitoring	9 DO / ECM				
						<b>30</b>
1	Internship	6 DI / PP	CC	II	C	10
2	Practical training for the completion of the dissertation	7 DI / PED	CC	II	C	10
3	Completion of the dissertation	8 DI / ED	CC	II	C	10
						<b>30</b>
	<b>TOTAL</b>					<b>60</b>
	Dissertation exam	10 DFA 5	-	II	E	10



Faculty of Land Reclamation and Environmental Engineering  
 Specialization: Professional Master's in **INVESTMENT MANAGEMENT  
 IN ECOSYSTEMS**  
 EQF LEVEL: 7  
 Field of study: : **Engineering and Management**

ISCED CODE: **0788**  
 Duration: 2 years, 120 ECTS  
 Full-time learning  
 Language of teaching: Romanian

1st Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Systemic ecology and climate change	1 DI / ESSC	CC	I	E	8
2	Biotechnology and sustainable industries	2 DI / BIS	CC	I	C	7
3	Land spatial organization, geospatial database	3 DI / OSTBDG	CC	I	E	8
4	Fundamentals of investment project management	4 DI / FMPI	CC	I	E	7
						<b>30</b>
1	Statistics of territory	5 DI / ST	CC	II	C	7
2	Resources recovery in ecosystems and human habitats	6 DI / VREHU	CC	II	E	8
3	Regional development programs, policies and strategies	7 DI / SPPDNR	CC	II	E	7
4	Investment - financing and cooperation techniques in investment process	8 DI / IFTCPI	CC	II	E	8
						<b>30</b>
	<b>TOTAL</b>					<b>60</b>

2nd Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	National and international law for environmental resources	1 DI / DIIRM	CC	I	E	6
2	Conception, design, implementation and management of investment projects	2 DI / CPIMPI	CC	I	E	7
3	Performance and risk evaluation of investment projects	3 DI / EPRPI	CC	I	E	6
4	Projects and programmes auditing	4 DI / APP	CC	I	E	7
5	Ethics and academic integrity	5 DI / EIA	CC	I	C	4
						<b>30</b>
1	Internship	6 DI / PP	CC	II	C	10
2	Practical training for the completion of the dissertation	7 DI / PED	CC	II	C	10
3	Completion of the dissertation	8 DI / ED	CC	II	C	10
						<b>30</b>
	<b>TOTAL</b>					<b>60</b>
	Dissertation exam	9 DFA 5	-	II	E	10

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected



Faculty of Land Reclamation and Environmental Engineering  
 Specialization: Professional Master's in **LAND RECLAMATION WORKS DESIGN**  
 EQF LEVEL: 7  
 Field of study: : **Engineering and Management**

ISCED CODE: **0732**  
 Duration: 2 years, 120 ECTS  
 Full-time learning  
 Language of teaching: Romanian

1st Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Methods for determining runoff on slopes and regularization of river watercourses	1 DI / MDSVRR-1/DA	CC	I	E	5
2	Inventory and rehabilitation of complex land reclamation schemes using GIS techniques	3 DI / IRACIF-2/DS	CC	I	E	5
3	Design technical norms for land reclamation works	4 DI / NTPLIF-2/DS	CC	I	C	5
4	Complex schemes design (I+II)	6 DI / PAC-I-II/DA	CC	I	E	6
5	Modern methods of acquisition and tracing in the field of topographic data	8 DI / MMATTD-2/DS	CC	I	E	4
6	Professional internship	10 DI / PP-II/DA	CC	I	C	5
						<b>30</b>
7	<i>Invention and technology transfer (facultative)</i>	<i>11 DFA / ITT-I-II/DS</i>	<i>FC</i>	<i>I</i>	<i>C</i>	<i>2</i>
8	<i>Programming languages (optional)</i>	<i>12 DFA / LP-II/DS</i>	<i>FC</i>	<i>I</i>	<i>C</i>	<i>4</i>
9	<i>English language for technical communication (facultative)</i>	<i>13 DFA / TCSLE-I-II/DS</i>	<i>FC</i>	<i>I</i>	<i>C</i>	<i>2</i>
						<b>38</b>
1	Principles and good practices in soil erosion control	2 DI / PBPCES-1/DS	CC	II	E	4
2	Modern solutions for irrigation and drainage works design	5 DI / SMPLID-1/DA	CC	II	E	4
3	Complex schemes design (I+II)	6 DI / PAC-I-II/DA	CC	II	E	4
4	Complex schemes design (II)-project	7 DI / PAC-II-pr/DA	CC	II	P	5
5	Pumping stations rehabilitation	9 DI / RSSP-II/DS	CC	II	E	5
6	Professional internship	10 DI / PP-II/DA	CC	II	C	8
						<b>30</b>
7	<i>Invention and technology transfer (facultative)</i>	<i>11 DFA / ITT-I-II/DS</i>	<i>FC</i>	<i>I</i>	<i>C</i>	<i>2</i>
8	<i>English language for technical communication (facultative)</i>	<i>13 DFA / TCSLE-I-II/DS</i>	<i>FC</i>	<i>I</i>	<i>C</i>	<i>2</i>
						<b>34</b>
	<b>TOTAL</b>					<b>72</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected



Faculty of Land Reclamation and Environmental Engineering  
 Specialization: Professional Master's in **LAND RECLAMATION WORKS DESIGN**  
 EQF LEVEL: 7  
 Field of study: : **Engineering and Management**

ISCED CODE: **0732**  
 Duration: 2 years, 120 ECTS  
 Full-time learning  
 Language of teaching: Romanian

2nd Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Soil improvement technologies	1 DI / TIP-III/DA	CC	I	E	4
2	Complex schemes design (I+II)	2 DI / PAC-III/DA	CC	I	E	4
3	Complex schemes design (II)-project	3 DI / PAC-III-Pr/DA	CC	I	P	4
4	Integrated monitoring of land reclamation schemes in the context of environmental processes	4 DI / MIAIF-III/DS	CC	I	E	5
5	Ethics and academic integrity	5 DI / EIA-III/DS	CC	I	C	4
6	Professional internship	6 DI / PP-IV/DA	CC	I	C	5
7	Rural development project implementation (optional)	9 DO / IPDR-III/DS	CO	I	E	4
	Software solutions for the hydrotechnical works design (optional)	9 DO / SSPCH-III/DS				
						<b>30</b>
1	Professional internship	6 DI / PP-IV/DA	CC	II	C	12
2	Practical training for the completion of the dissertation	7 DI / PED-IV/DA	CC	II	C	9
3	Completion of the dissertation	8 DI / ED-IV/DA	CC	II	C	9
						<b>30</b>
	<b>TOTAL</b>					<b>60</b>
	Dissertation exam	10 DI / SD-IV			E	10

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected



Faculty of Land Reclamation and Environmental Engineering  
 Specialization: Professional Master's in **INTEGRATED MANAGEMENT  
 OF GEOSPATIAL DATA AND INFORMATION**  
 EQF LEVEL: 7  
 Field of study: : **Geodetic Engineering**

ISCED CODE: **0532**  
 Duration: 2 years, 120 ECTS  
 Full-time learning  
 Language of teaching: Romanian

1st Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Elements of physical geography and advanced thematic photo-interpretation	1 DI / EGFFTA-I/DS	CC	I	E	5
2	GNSS interoperability	2 DI / ISGNSS-I/DA	CC	I	E	6
3	Modelling of multispectral remote sensing data	3 DI / MDMT-I/DA	CC	I	E	6
4	Project management	4 DI / MP-I/DS	CC	I	C	3
5	Elements of programming in the geospatial domain I, II	5 DI / EPDG-I-II/DA	CC	I	E	6
6	Professional practice I	10 DI / PP-I/DA	CC	I	C	4
						<b>30</b>
7	<i>Intellectual property and technology transfer in the geospatial domain</i>	13 DFA / PITTDG-I-II/DS	FC	I	C	2
8	<i>Specialized communication techniques in English</i>	14 DFA / TCSLE-I-II/DA	FC	I	C	2
						<b>34</b>
1	Elements of programming in the geospatial domain I, II	5 DI / EPDG-I-II/DA	CC	II	E	6
2	Hyperspectral remote sensing	6 DI / TH-II/DA	CC	II	E	6
3	Scientific space missions	7 DI / MSS-II/DS	CC	II	C	6
4	Radar interferometry	8 DI / IR-II/DA	CC	II	E	4
5	Radar interferometry - project	9 DI / IR-II-Pr/DA	CC	II	P	2
6	Professional practice II	11 DI / PP-II/DA	CC	II	C	4
7	Digital cartography standards	12 DO / SCD-II/DS	CO	II	E	2
	Geospatial data publishing services	12 DO / SPDG-II/DS				
						<b>30</b>
8	<i>Intellectual property and technology transfer in the geospatial domain</i>	13 DFA / PITTDG-I-II/DS	FC	II	C	2
9	<i>Specialized communication techniques in English</i>	14 DFA / TCSLE-I-II/DA	FC	II	C	2
						<b>34</b>
	<b>TOTAL</b>					<b>68</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected



Faculty of Land Reclamation and Environmental Engineering  
 Specialization: Professional Master's in **INTEGRATED MANAGEMENT  
 OF GEOSPATIAL DATA AND INFORMATION**  
 EQF LEVEL: 7  
 Field of study: : **Geodetic Engineering**

ISCED CODE: **0532**  
 Duration: 2 years, 120 ECTS  
 Full-time learning  
 Language of teaching: Romanian

2nd Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	AI/ML for Earth Observation data processing	1 DI / AIMLPDOT-III/DS	CC	I	E	5
2	Integration and analysis of geoinformation from multiple sources	2 DI / IAGSM-III/DS	CC	I	E	4
3	Radar polarimetry	3 DI / PR-III/DA	CC	I	C	3
4	Aquisition, processing and exploitation of UAS data	4 DI / APEDUAS-III / DA	CC	I	E	3
5	Aquisition, processing and exploitation of UAS data - project	5 DI / APEDUAS-III-pr / DA	CC	I	P	2
6	Ethics and academic integrity	6 DI / EIA-III/DS	CC	I	C	4
7	Research practice I, II	7 DI / PP-IV/DA	CC	I	C	3
8	Geospatial intelligence	10 DO / GEOINT-III/DS	CO	I	E	6
	Advanced methods of spatial modelling	10 DO / ECC-III/DS				
						<b>30</b>
1	Research practice I, II	7 DI / PP-IV/DA	CC	II	C	10
2	Practical training for the completion of the dissertation	8 DI / PED-IV/DS	CC	II	C	10
3	Completion of the dissertation	9 DI / ED-IV/DA	CC	II	C	10
						<b>30</b>
	<b>TOTAL</b>					<b>60</b>
	Dissertation exam	11 DI / SD-IV	-	II	E	10

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected





# **Faculty of Biotechnologies**





Faculty of Biotechnologies  
 Specialization: Bachelor in **BIOTECHNOLOGIES FOR FOOD INDUSTRY**  
 EQF LEVEL: 6  
 Field of study: **Biotechnologies**

ISCED CODE: **0510/0721**  
 Duration: 4 years, 240 ECTS  
 Full-time learning  
 Language of teaching: Romanian

1st Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Mathematics and biostatistics	B351DOF15	CC	I	E	5
2	Biophysics	B351DOF02	CC	I	E	5
3	General microbiology	B351DOF03	CC	I	E	5
4	Chemistry	B351DOF09	CC	I	E	5
5	Digital tools	B351DOD04	CC	I	PV	3
6	Ecology and environmental protection	B351DOF14	CC	I	PV	5
7	Foreign languages - English	B351DAC02	CO	I	C	2
	Foreign languages - French					
						<b>30</b>
8	<i>Sport</i>	<i>B351DFC01</i>	<i>FC</i>	<i>I</i>	<i>PV/A/R</i>	<i>1</i>
9	<i>Volunteering</i>	<i>B351DFC02</i>	<i>FC</i>	<i>I</i>	<i>C</i>	<i>2</i>
						<b>33</b>
1	General microbiology	B351DOF03	CC	II	E	5
2	Chemistry	B351DOF09	CC	II	E	5
3	Cell biology	B351DOF12	CC	II	PV	4
4	Digital tools	B351DOD04	CC	II	PV	3
5	Analytical chemistry and instrumental analysis	B351DOD01	CC	II	E	5
6	Botany	B351DOF01	CO	II	E	4
	Anatomy	B351DOF02				
7	Foreign languages - English	B351DAC02	CO	II	C	2
	Foreign languages - French					
						<b>28</b>
8	Practice stage (1 week)	B351DOS01	CC	II	C	2
						<b>30</b>
9	<i>Sport</i>	<i>B351DFC01</i>	<i>FC</i>	<i>II</i>	<i>PV/A/R</i>	<i>1</i>
10	<i>Volunteering</i>	<i>B351DFC02</i>	<i>FC</i>	<i>II</i>	<i>C</i>	<i>2</i>
						<b>33</b>
	<b>TOTAL</b>					<b>66</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected; PV=Periodic verification



Faculty of Biotechnologies  
 Specialization: Bachelor in **BIOTECHNOLOGIES FOR FOOD INDUSTRY**  
 EQF LEVEL: 6  
 Field of study: **Biotechnologies**

ISCED CODE: **0510/0721**  
 Duration: 4 years, 240 ECTS  
 Full-time learning  
 Language of teaching: Romanian

2nd Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Biochemistry	B352DOF01	CC	I	E	5
2	Genetics	B352DOF02	CC	I	E	5
3	General biotechnology and biotechnological installations	B352DOD10	CC	I	E	5
4	Food and nutrition	B352DOD08	CC	I	PV	4
5	Cell and tissue culture	B352DOD11	CC	I	E	5
6	Toxicology	B352DOD12	CC	I	PV	4
7	Foreign languages - English	B352DAC02	CO	I	C	2
	Foreign languages - French					
						<b>30</b>
8	<i>Sport</i>	<i>B352DFC01</i>	<i>FC</i>	<i>I</i>	<i>PV/A/R</i>	<i>1</i>
9	<i>Volunteering</i>	<i>B352DFC02</i>	<i>FC</i>	<i>I</i>	<i>C</i>	<i>2</i>
						<b>33</b>
1	Biochemistry	B352DOF01	CC	II	E	5
2	General biotechnology and biotechnological installations	B352DOD10	CC	II	PV	3
3	Molecular biology	B352DOD03	CC	II	E	5
4	General enzymology	B352DOF04	CC	II	E	5
5	Genetic resources management and conservation	B352DOS02	CC	II	PV	3
6	Plant physiology	B352DAD05	CO	II	PV	4
	Animal physiology	B352DAD06				
7	Foreign languages - English	B352DAC02	CO	II	C	2
	Foreign languages - French					
						<b>27</b>
8	Practice stage (3 weeks)	B352DOS01	CC	II	C	3
						<b>30</b>
9	<i>Sport</i>	<i>B352DFC01</i>	<i>FC</i>	<i>II</i>	<i>PV/A/R</i>	<i>1</i>
10	<i>Volunteering</i>	<i>B352DFC02</i>	<i>FC</i>	<i>II</i>	<i>C</i>	<i>2</i>
						<b>33</b>
	<b>TOTAL</b>					<b>66</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected; PV=Periodic verification



Faculty of Biotechnologies  
 Specialization: Bachelor in **BIOTECHNOLOGIES FOR FOOD INDUSTRY**  
 EQF LEVEL: 6  
 Field of study: **Biotechnologies**

ISCED CODE: **0510/0721**  
 Duration: 4 years, 240 ECTS  
 Full-time learning  
 Language of teaching: Romanian

3rd Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Food biotechnology	B383DOS01	CC	I	E	5
2	Genetic engineering	B383DOD01	CC	I	E	5
4	Food microbiology	B383DOS02	CC	I	PV	5
5	Special enzymology	B383DOD02	CC	I	E	5
6	Plant and animal raw materials for the food industry	B383DOS09	CC	I	E	2
7	Food chemistry	B383DOS04	CC	I	E	4
8	Food safety	B383DOS07	CC	I	E	4
						<b>30</b>
9	<i>Foreign languages</i>	<i>B383DFC01</i>	<i>FC</i>	<i>I</i>	<i>C</i>	2
10	<i>Extractive technologies in food industry</i>	<i>B383DFS01</i>	<i>FC</i>	<i>I</i>	<i>PV</i>	4
11	<i>Volunteering</i>	<i>B383DFC03</i>	<i>FC</i>	<i>I</i>	<i>C</i>	2
						<b>38</b>
1	Food biotechnology	B383DOS01	CC	II	E	5
2	Genetically modified organisms	B383DOD05	CC	II	E	4
3	Refrigeration technologies	B383DOD07	CC	II	E	3
4	Experimental design	B383DOD03	CC	II	PV	4
5	Plant and animal raw materials processing technologies	B383DOS08	CC	II	E	4
6	Enzymes and proteins biotechnology	B383DAS03	CO	II	PV	4
	Industrial biotechnology	B383DAS04				
7	Applied informatics in biotechnology	B383DAS01	CO	II	PV	3
	Modelling of biotechnological processes	B383DAS02				
						<b>27</b>
8	Practice stage (3 weeks)	B383DOS06	CC	II	C	3
						<b>30</b>
9	<i>Foreign languages</i>	<i>B383DFC01</i>	<i>FC</i>	<i>II</i>	<i>C</i>	2
10	<i>Volunteering</i>	<i>B383DFC03</i>	<i>FC</i>	<i>II</i>	<i>C</i>	2
						<b>34</b>
	<b>TOTAL</b>					<b>72</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected; PV=Periodic verification



Faculty of Biotechnologies  
 Specialization: Bachelor in **BIOTECHNOLOGIES FOR FOOD INDUSTRY**  
 EQF LEVEL: 6  
 Field of study: **Biotechnologies**

ISCED CODE: **0510/0721**  
 Duration: 4 years, 240 ECTS  
 Full-time learning  
 Language of teaching: Romanian

4th Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Design of biotechnological installations	B384DOS01	CC	I	E	5
2	Conditioning and preservation of biotechnological products	B384DOD06	CC	I	E	5
3	Control and expertise of biotechnological products	B384DOD07	CC	I	E	4
4	Additives and ingredients for food industry	B384DOS02	CC	I	E	4
5	Accounting and economic-financial analysis	B384DOC01	CC	I	PV	4
6	Quality management	B384DOD10	CC	I	PV	3
7	Agrofood processing	B384DAS01	CO	I	PV	5
	Exploitation of by-products from the food industry	B384DAS02				
						<b>30</b>
8	<i>Foreign languages</i>	<i>B384DFC01</i>	<i>FC</i>	<i>I</i>	<i>C</i>	2
9	<i>Food hygiene management</i>	<i>B384DFS01</i>	<i>FC</i>	<i>I</i>	<i>PV</i>	4
10	<i>Volunteering</i>	<i>B384DFC03</i>	<i>FC</i>	<i>I</i>	<i>C</i>	2
						<b>38</b>
1	Fermentative technologies	B384DOS07	CC	II	E	4
2	Conditioning and preservation of biotechnological products	B384DOD06	CC	II	E	4
3	Waste recycling biotechnologies	B384DOD04	CC	II	E	4
4	Legislation in biotechnology and bioethics	B384DOD05	CC	II	PV	3
5	Management and marketing of biotechnological products	B384DOD08	CC	II	E	4
6	Agrofood processing	B384DAS01	CO	II	VP	4
	Exploitation of by-products from the food industry	B384DAS02				
7	Biotechnologies of starter cultures for food industry	B384DAD01	CO	II	E	3
	Biotechnology for dyes, flavors and vitamins	B384DAD02				
						<b>26</b>
8	Practice stage (2 weeks)	B384DOS04	CC	II	C	2
9	Elaboration of diploma thesis (2 weeks)	B384DOS06	CC	II	C	2
						<b>30</b>
10	<i>Foreign languages</i>	<i>B384DFC01</i>	<i>FC</i>	<i>II</i>	<i>C</i>	2
11	<i>Volunteering</i>	<i>B384DFC03</i>	<i>FC</i>	<i>II</i>	<i>C</i>	2
						<b>34</b>
	Bachelor exam		-	II		10
	<b>TOTAL</b>					<b>82</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

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Faculty of Biotechnologies  
 Specialization: Bachelor in **VETERINARY MEDICINE BIOTECHNOLOGIES**  
 EQF LEVEL: 6  
 Field of study: : **Biotechnologies**

ISCED CODE: **0510/0721**  
 Duration: 4 years, 240 ECTS  
 Full-time learning  
 Language of teaching: Romanian

1st Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Mathematics and biostatistics	B351DOF15	CC	I	E	5
2	Biophysics	B351DOF02	CC	I	E	5
3	General microbiology	B351DOF03	CC	I	E	5
4	Chemistry	B351DOF09	CC	I	E	5
5	Digital tools	B351DOD04	CC	I	PV	3
6	Ecology and environmental protection	B351DOF14	CC	I	PV	5
7	Foreign languages - English	B351DAC02	CO	I	C	2
	Foreign languages - French					
						<b>30</b>
8	<i>Sport</i>	<i>B351DFC01</i>	<i>FC</i>	<i>I</i>	<i>PV/A/R</i>	<i>1</i>
9	<i>Volunteering</i>	<i>B351DFC02</i>	<i>FC</i>	<i>I</i>	<i>C</i>	<i>2</i>
						<b>33</b>
1	General microbiology	B351DOF03	CC	II	E	5
2	Chemistry	B351DOF09	CC	II	E	5
3	Cell biology	B351DOF12	CC	II	PV	4
4	Digital tools	B351DOD04	CC	II	PV	3
5	Analytical chemistry and instrumental analysis	B351DOD01	CC	II	E	5
6	Botany	B351DAF01	CO	II	E	4
	Anatomy	B351DAF02				
7	Foreign languages - English	B351DAC02	CO	II	C	2
	Foreign languages - French					
						<b>28</b>
8	Practice stage (1 week)	B351DOS01	CC	II	C	2
						<b>30</b>
9	<i>Sport</i>	<i>B351DFC01</i>	<i>FC</i>	<i>II</i>	<i>PV/A/R</i>	<i>1</i>
10	<i>Volunteering</i>	<i>B351DFC02</i>	<i>FC</i>	<i>II</i>	<i>C</i>	<i>2</i>
						<b>33</b>
	<b>TOTAL</b>					<b>66</b>

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Faculty of Biotechnologies  
 Specialization: Bachelor in **VETERINARY MEDICINE BIOTECHNOLOGIES**  
 EQF LEVEL: 6  
 Field of study: **Biotechnologies**

ISCED CODE: **0510/0721**  
 Duration: 4 years, 240 ECTS  
 Full-time learning  
 Language of teaching: Romanian

2nd Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Biochemistry	B352DOF01	CC	I	E	5
2	Genetics	B352DOF02	CC	I	E	5
3	General biotechnology and biotechnological installations	B352DOD10	CC	I	E	5
4	Food and nutrition	B352DOD08	CC	I	PV	4
5	Cell and tissue culture	B352DOD11	CC	I	E	5
6	Toxicology	B352DOD12	CC	I	PV	4
7	Foreign languages - English	B352DAC02	CO	I	C	2
	Foreign languages - French					
						<b>30</b>
8	<i>Sport</i>	<i>B352DFC01</i>	<i>FC</i>	<i>I</i>	<i>PV/A/R</i>	<i>1</i>
9	<i>Volunteering</i>	<i>B352DFC02</i>	<i>FC</i>	<i>I</i>	<i>C</i>	<i>2</i>
						<b>33</b>
1	Biochemistry	B352DOF01	CC	II	E	5
2	General biotechnology and biotechnological installations	B352DOD10	CC	II	PV	3
3	Molecular biology	B352DOD03	CC	II	E	5
4	General enzymology	B352DOF04	CC	II	E	5
5	Genetic resources management and conservation	B352DOS02	CC	II	PV	3
6	Plant physiology	B352DAD05	CO	II	PV	4
	Animal physiology	B352DAD06				
7	Foreign languages - English	B352DAC02	CO	II	C	2
	Foreign languages - French					
						<b>27</b>
8	Practice stage (3 weeks)	B352DOS01	CC	II	C	3
						<b>30</b>
9	<i>Sport</i>	<i>B352DFC01</i>	<i>FC</i>	<i>II</i>	<i>PV/A/R</i>	<i>1</i>
10	<i>Volunteering</i>	<i>B352DFC02</i>	<i>FC</i>	<i>II</i>	<i>C</i>	<i>2</i>
						<b>33</b>
	<b>TOTAL</b>					<b>66</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

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Faculty of Biotechnologies  
 Specialization: Bachelor in **VETERINARY MEDICINE BIOTECHNOLOGIES**  
 EQF LEVEL: 6  
 Field of study: **Biotechnologies**

ISCED CODE: **0510/0721**  
 Duration: 4 years, 240 ECTS  
 Full-time learning  
 Language of teaching: Romanian

3rd Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Pharmaceutical biotechnologies	B373DOS01	CC	I	E	5
2	Genetic engineering	B373DOD01	CC	I	E	5
3	Medical microbiology	B373DOS06	CC	I	PV	4
4	Special enzymology	B373DOD02	CC	I	E	5
5	Immunology	B373DOS07	CC	I	E	4
6	Cellular pathology	B373DOS04	CC	I	E	4
7	Aquaculture biotechnologies	B373DAS06	CO	I	PV	3
	Medical mycology	B373DAS07				
						<b>30</b>
8	<i>Foreign languages</i>	<i>B373DFC01</i>	<i>FC</i>	<i>I</i>	<i>C</i>	<i>2</i>
9	<i>Volunteering</i>	<i>B373DFC03</i>	<i>FC</i>	<i>I</i>	<i>C</i>	<i>2</i>
						<b>34</b>
1	Pharmaceutical biotechnologies	B373DOS01	CC	II	E	5
2	Genetically modified organisms	B373DOD04	CC	II	E	4
3	Medical microbiology	B373DOS06	CC	II	E	4
4	Biotechnologies for obtaining serums and vaccines	B373DOS08	CC	II	E	4
5	Refrigeration technologies	B373DOD05	CC	II	E	3
6	Experimental design	B373DOD06	CC	II	PV	4
7	Applied informatics in biotechnology	B373DAS03	CO	II	PV	3
	Modeling of biotechnological processes	B373DAS04				
						<b>27</b>
8	Practice stage (3 weeks)	B373DOS05	CC	II	C	3
						<b>30</b>
9	<i>Foreign languages</i>	<i>B373DFC01</i>	<i>FC</i>	<i>II</i>	<i>C</i>	<i>2</i>
10	<i>Volunteering</i>	<i>B373DFC03</i>	<i>FC</i>	<i>II</i>	<i>C</i>	<i>2</i>
						<b>34</b>
	<b>TOTAL</b>					<b>68</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

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Faculty of Biotechnologies  
 Specialization: Bachelor in **VETERINARY MEDICINE BIOTECHNOLOGIES**  
 EQF LEVEL: 6  
 Field of study: **Biotechnologies**

ISCED CODE: **0510/0721**  
 Duration: 4 years, 240 ECTS  
 Full-time learning  
 Language of teaching: Romanian

4th Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Conditioning and preservation of biotechnological products	B374DOD05	CC	I	E	5
2	Animal pathology	B374DOS03	CC	I	E	5
3	Control and expertise of biotechnological products	B374DOD10	CC	I	E	4
4	Accounting and economic-financial analysis	B374DOC01	CC	I	PV	4
5	Reproduction biotechnologies	B374DOD11	CC	I	PV	5
6	Quality management	B374DOD12	CC	I	PV	3
7	Bioconversions and biotransformations	B374DAS01	CO	I	E	4
	Pharmacology and Pharmacodynamics	B374DAS04				
						<b>30</b>
8	<i>Foreign languages</i>	<i>B374DFC01</i>	<i>FC</i>	<i>I</i>	<i>C</i>	2
9	<i>Volunteering</i>	<i>B374DFC04</i>	<i>FC</i>	<i>I</i>	<i>C</i>	2
						<b>34</b>
1	Conditioning and preservation of biotechnological products	B374DOD05	CC	II	E	4
2	Animal pathology	B374DOS03	CC	II	E	5
3	Laboratory diagnosis	B374DOS04	CC	II	E	4
4	Legislation in biotechnology and bioethics	B374DOD06	CC	II	PV	3
5	Waste recycling biotechnologies	B374DOD07	CC	II	E	4
6	Management and marketing of biotechnological products	B374DOD08	CC	II	E	4
7	Biotechnological therapy products	B374DAS03	CO	II	PV	2
	Industrial pharmaceutical technologies	B374DAS05				
						<b>26</b>
8	Practice stage (2 weeks)	B374DOS09	CC	II	C	2
9	Elaboration of diploma thesis (2 weeks)	B374DOS10	CC	II	C	2
						<b>30</b>
10	<i>Foreign languages</i>	<i>B374DFC01</i>	<i>FC</i>	<i>II</i>	<i>C</i>	2
11	<i>Volunteering</i>	<i>B374DFC04</i>	<i>FC</i>	<i>II</i>	<i>C</i>	2
						<b>34</b>
	Bachelor exam		-	II	-	10
	<b>TOTAL</b>					<b>78</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

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Faculty of Biotechnologies  
 Specialization: Bachelor in **AGRICULTURAL BIOTECHNOLOGIES**  
 EQF LEVEL: 6  
 Field of study: : **Biotechnologies**

ISCED CODE: **0510/0810**  
 Duration: 4 years, 240 ECTS  
 Full-time learning  
 Language of teaching: Romanian

1st Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Mathematics and biostatistics	B351DOF15	CC	I	E	5
2	Biophysics	B351DOF02	CC	I	E	5
3	General microbiology	B351DOF03	CC	I	E	5
4	Chemistry	B351DOF09	CC	I	E	5
5	Digital tools	B351DOD04	CC	I	PV	3
6	Ecology and environmental protection	B351DOF14	CC	I	PV	5
7	Foreign languages - English	B351DAC02	CO	I	C	2
	Foreign languages - French					
						<b>30</b>
8	<i>Sport</i>	<i>B351DFC01</i>	<i>FC</i>	<i>I</i>	<i>PV/A/R</i>	<i>1</i>
9	<i>Volunteering</i>	<i>B351DFC02</i>	<i>FC</i>	<i>I</i>	<i>C</i>	<i>2</i>
						<b>33</b>
1	General microbiology	B351DOF03	CC	II	E	5
2	Chemistry	B351DOF09	CC	II	E	5
3	Cell biology	B351DOF12	CC	II	PV	4
4	Digital tools	B351DOD04	CC	II	PV	3
5	Analytical chemistry and instrumental analysis	B351DOD01	CC	II	E	5
6	Botany	B351DOF01	CO	II	E	4
	Anatomy	B351DOF02				
7	Foreign languages - English	B351DAC02	CO	II	C	2
	Foreign languages - French					
						<b>28</b>
8	Practice stage (1 week)	B351DOS01	CC	II	C	2
						<b>30</b>
9	<i>Sport</i>	<i>B351DFC01</i>	<i>FC</i>	<i>II</i>	<i>PV/A/R</i>	<i>1</i>
10	<i>Volunteering</i>	<i>B351DFC02</i>	<i>FC</i>	<i>II</i>	<i>C</i>	<i>2</i>
						<b>33</b>
	<b>TOTAL</b>					<b>66</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

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Faculty of Biotechnologies  
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 EQF LEVEL: 6  
 Field of study: **Biotechnologies**

ISCED CODE: **0510/0810**  
 Duration: 4 years, 240 ECTS  
 Full-time learning  
 Language of teaching: Romanian

2nd Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Biochemistry	B352DOF01	CC	I	E	5
2	Genetics	B352DOF02	CC	I	E	5
3	General biotechnology and biotechnological installations	B352DOD10	CC	I	E	5
4	Food and nutrition	B352DOD08	CC	I	PV	4
5	Cell and tissue culture	B352DOD11	CC	I	E	5
6	Toxicology	B352DOD12	CC	I	PV	4
7	Foreign languages - English	B352DAC02	CO	I	C	2
	Foreign languages - French					
						<b>30</b>
8	<i>Sport</i>	<i>B352DFC01</i>	<i>FC</i>	<i>I</i>	<i>PV / A/R</i>	<i>1</i>
9	<i>Volunteering</i>	<i>B352DFC02</i>	<i>FC</i>	<i>I</i>	<i>C</i>	<i>2</i>
						<b>33</b>
1	Biochemistry	B352DOF01	CC	II	E	5
2	General biotechnology and biotechnological installations	B352DOD10	CC	II	PV	3
3	Molecular biology	B352DOD03	CC	II	E	5
4	General enzymology	B352DOF04	CC	II	E	5
5	Genetic resources management and conservation	B352DOS02	CC	II	PV	3
6	Plant physiology	B352DAD05	CO	II	PV	4
	Animal physiology	B352DAD06				
7	Foreign languages - English	B352DAC02	CO	II	C	2
	Foreign languages - French					
						<b>27</b>
8	Practice stage (3 weeks)	B352DOS01	CC	II	C	3
						<b>30</b>
9	<i>Sport</i>	<i>B352DFC01</i>	<i>FC</i>	<i>II</i>	<i>PV / A/R</i>	<i>1</i>
10	<i>Volunteering</i>	<i>B352DFC02</i>	<i>FC</i>	<i>II</i>	<i>C</i>	<i>2</i>
						<b>33</b>
	<b>TOTAL</b>					<b>66</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected; PV=Periodic verification



Faculty of Biotechnologies  
 Specialization: Bachelor in **AGRICULTURAL BIOTECHNOLOGIES**  
 EQF LEVEL: 6  
 Field of study: : **Biotechnologies**

ISCED CODE: **0510/0810**  
 Duration: 4 years, 240 ECTS  
 Full-time learning  
 Language of teaching: Romanian

3rd Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Fermentative biotechnologies	B363DOS01	CC	I	E	5
2	Genetic engineering	B363DOD01	CC	I	E	5
3	Soil microbiology	B363DOS10	CC	I	PV	2
4	Special enzymology	B363DOD02	CC	I	E	5
5	Biotechnology in plant protection	B363DOS05	CC	I	E	5
6	Processing of plant raw materials	B363DOS06	CC	I	PV	4
7	Biotechnologies for fodder production and preserving	B363DAS01	CO	I	PV	4
8	Applied biotechnologies in aquaculture and apiculture	B363DAS02				
						<b>30</b>
9	<i>Foreign languages</i>	<i>B363DFC01</i>	<i>FC</i>	<i>I</i>	<i>C</i>	2
10	<i>Volunteering</i>	<i>B363DFC03</i>	<i>FC</i>	<i>I</i>	<i>C</i>	2
						<b>34</b>
1	Fermentative biotechnologies	B363DOS01	CC	II	E	5
2	Genetically modified organisms	B363DOD04	CC	II	E	4
3	Agricultural technologies	B363DOS09	CC	II	E	4
4	Refrigeration technologies	B363DOD06	CC	II	E	3
5	Biotechnology in plant protection	B363DOS05	CC	II	E	4
6	Experimental design	B363DOD03	CC	II	PV	4
7	Applied informatics in biotechnology	B363DAS03	CO	II	PV	3
	Modeling of biotechnological processes	B363DAS04				
						<b>27</b>
8	Practice stage (3 weeks)	B363DOS07	CC	II	C	3
						<b>30</b>
9	<i>Foreign languages</i>	<i>B363DFC01</i>	<i>FC</i>	<i>II</i>	<i>C</i>	2
10	<i>Volunteering</i>	<i>B363DFC03</i>	<i>FC</i>	<i>II</i>	<i>C</i>	2
						<b>34</b>
	<b>TOTAL</b>					<b>68</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected; PV=Periodic verification



Faculty of Biotechnologies  
 Specialization: Bachelor in **AGRICULTURAL BIOTECHNOLOGIES**  
 EQF LEVEL: 6  
 Field of study: **Biotechnologies**

ISCED CODE: **0510/0810**  
 Duration: 4 years, 240 ECTS  
 Full-time learning  
 Language of teaching: Romanian

4th Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Biotechnologies in plant breeding	B364DOS01	CC	I	E	5
2	Conditioning and preservation of biotechnological products	B364DOD04	CC	I	E	5
3	Biotechnology in fruit growing and viticulture	B364DOS03	CC	I	E	4
4	Control and expertise of biotechnological products	B364DOD05	CC	I	E	4
5	Processing of animal raw materials	B364DOS10	CC	I	E	5
6	Accounting and economic-financial analysis	B364DOC03	CC	I	PV	4
7	Quality management	B364DOD08	CC	I	PV	3
						<b>30</b>
8	<i>Foreign languages</i>	<i>B364DFC01</i>	<i>FC</i>	<i>I</i>	<i>C</i>	<i>2</i>
9	<i>Volunteering</i>	<i>B364DFC04</i>	<i>FC</i>	<i>I</i>	<i>C</i>	<i>2</i>
						<b>34</b>
1	Biotechnologies in plant breeding	B364DOS01	CC	II	E	4
2	Conditioning and preservation of biotechnological products	B364DOD04	CC	II	E	4
3	Biotechnology in vegetable growing and ornamental plant production	B364DOS11	CC	II	PV	3
4	Waste recycling biotechnologies	B364DOD01	CC	II	E	4
5	Legislation in biotechnology and bioethics	B364DOD06	CC	II	PV	3
6	Management and marketing of biotechnological products	B364DOD07	CC	II	E	4
7	Laboratory diagnosis of plant diseases	B364DAS03	CO	II	PV	4
	Biotechnologies for obtaining phyto-therapeutic products	B364DAS04				
						<b>26</b>
8	Practice stage (2 weeks)	B364DOS09	CC	II	C	2
9	Elaboration of diploma thesis (2 weeks)	B364DOS12	CC	II	C	2
						<b>30</b>
10	<i>Foreign languages</i>	<i>B364DFC01</i>	<i>FC</i>	<i>II</i>	<i>C</i>	<i>2</i>
11	<i>Volunteering</i>	<i>B364DFC04</i>	<i>FC</i>	<i>II</i>	<i>C</i>	<i>2</i>
						<b>34</b>
	Bachelor exam			II	-	10
	<b>TOTAL</b>					<b>78</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected; PV=Periodic verification



Faculty of Biotechnologies  
 Specialization: Master's in **BIOTECHNOLOGY AND ENTREPRENEURSHIP**  
 EQF LEVEL: 7  
 Field of study: **Biotechnologies**

ISCED CODE: **0888**  
 Duration: 2 years, 120 ECTS  
 Full-time learning  
 Language of teaching: **English**

1st Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Applied Biochemistry and Enzymology	B781DOA01	CC	I	E	8
2	Applied Microbiology	B781DOA02	CC	I	E	8
3	Advanced Molecular Biology	B781DOA03	CC	I	E	9
4	Communication and Leadership	B781DOS01	CC	I	PV	5
						<b>30</b>
1	Advanced Agricultural Biotechnology	B781DOA04	CC	II	E	8
2	Advances in Food Biotechnology	B781DOA05	CC	II	E	8
3	Pharmaceutical Biotechnology and Health Care	B781DOS02	CC	II	E	9
4	Good Laboratory and Manufacturing Practice in Industrial Biotechnolog	B781DOS03	CC	II	PV	5
						<b>30</b>
<b>TOTAL</b>						<b>60</b>

2nd Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Entrepreneurship in Biotechnology - Starting-up	B782DOS10	CC	I	E	8
2	Management and Marketing	B782DOS11	CC	I	E	7
3	Ethics and Academic Integrity	B782DOS03	CC	I	PV	2
4	Digital Tools for BioEntrepreneurs	B782DOS04	CC	I	PV	7
5	Intellectual Property Management	B782DASO1	CO	I	E	6
	Human Resources Management	B782DASO2				
						<b>30</b>
1	Project Management	B782DOS12	CC	II	PV	8
2	Risk's and Quality Management	B782DOS05	CC	II	E	4
						12
3	Practical traineeship (12 weeks)	B782DOS08	CC	II	C	14
4	Dissertation Paper's Elaboration (2 weeks)	B782DOS09	CC	II	C	4
						<b>30</b>
	Dissertation Thesis Presentation	-		II	-	10
<b>TOTAL</b>						<b>70</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected; PV=Periodic verification



Faculty of Biotechnologies  
 Specialization: Master's in **BIOTECHNOLOGY AND FOOD SAFETY**  
 EQF LEVEL: 7  
 Field of study: : **Biotechnologies**

ISCED CODE: **0510/0721**  
 Duration: 2 years, 120 ECTS  
 Full-time learning  
 Language of teaching: Romanian

1st Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	New trends in food microbiology	B401DOA07	CC	I	E	8
2	Basics of quality assurance in biotechnologies and in the food industry	B401DOS04	CC	I	E	8
3	Food toxicology and modern analytical methods	B401DOS02	CC	I	E	8
4	Unitary processes and equipment in biotechnologies and in the food industry	B401DOA11	CC	I	PV	6
						<b>30</b>
1	Modern processing technologies in the food industry	B401DOA08	CC	II	E	8
2	Modern methods of detecting pathogens and genetically modified organisms in food	B401DOA04	CC	II	E	8
3	Sensorial analysis	B401DOA09	CC	II	E	7
4	Food safety and health	B401DOA10	CC	II	PV	7
						<b>30</b>
	<b>TOTAL</b>					<b>60</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected; PV=Periodic verification



Faculty of Biotechnologies

Specialization: Master's in **BIOTECHNOLOGY AND FOOD SAFETY**

EQF LEVEL: 7

Field of study: **Biotechnologies**ISCED CODE: **0510/0721**

Duration: 2 years, 120 ECTS

Full-time learning

Language of teaching: Romanian

2nd Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Biotechnological production of natural ingredients for food industry	B402DOA02	CC	I	E	8
2	Modern technologies for food packaging	B402DOS04	CC	I	E	7
3	Hygiene and sanitation in food industry	B402DOS02	CC	I	E	7
4	Ethics and academic integrity	B402DOS05	CC	I	PV	2
5	Safety in primary production	B402DAS06	CO	I	E	6
	Total food chain traceability	B402DAS07				
						<b>30</b>
6	<i>Project management</i>	<i>B402DFS07</i>	<i>FC</i>	<i>I</i>	<i>PV</i>	<i>2</i>
7	<i>Biotechnology business start-up: legislation and industrial property</i>	<i>B402DFS03</i>	<i>FC</i>	<i>I</i>	<i>E</i>	<i>3</i>
						<b>35</b>
1	Food adulteration and protection strategies/	B402DAS08	CO	II	E	6
	Design and development of new food products	B402DAA02				
2	Food consumer behaviour and protection/	B402DAS11	CO	II	E	6
	Communication techniques	B402DAS10				
						<b>12</b>
3	Practice (12 weeks)	B402DOS08	CC	II	C	14
4	Dissertation thesis elaboration (2 weeks)	B402DOS09	CC	II	C	4
						<b>30</b>
5	<i>Applied biostatistics and specialized IT programs</i>	<i>B402DFS05</i>	<i>FC</i>	<i>II</i>	<i>PV</i>	<i>3</i>
						<b>33</b>
	Dissertation exam	-	-	II	-	10
	<b>TOTAL</b>					<b>78</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected; PV=Periodic verification





Faculty of Biotechnologies  
 Specialization: Master's in **BIOTECHNOLOGIES IN  
 PHARMACEUTICAL INDUSTRY**  
 EQF LEVEL: 7  
 Field of study: : **Biotechnologies**

ISCED CODE: **0510/0888**  
 Duration: 2 years, 120 ECTS  
 Full-time learning  
 Language of teaching: Romanian

1st Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Medicinal plants. Cultivation and quality assurance	B421DOS01	CC	I	PV	7
2	Biotechnologies for obtaining biologically active molecules	B421DOA01	CC	I	E	7
3	Plant biotechnologies for biogenic compounds production	B421DOA02	CC	I	E	8
4	Formulation and obtaining of conventional pharmaceutical forms	B421DOS02	CC	I	E	8
						<b>30</b>
1	Analytical bio-separations	B421DOA03	CC	II	E	8
2	Industrial extraction and separation processes	B421DOS03	CC	II	E	6
3	Drug preformulation and formulation	B421DOS04	CC	II	PV	8
4	Molecular biology applied in pharmaceutical industry	B421DOA04	CC	II	E	8
						<b>30</b>
	<b>TOTAL</b>					<b>60</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected; PV=Periodic verification



Faculty of Biotechnologies  
 Specialization: Master's in **BIOTECHNOLOGIES IN  
 PHARMACEUTICAL INDUSTRY**  
 EQF LEVEL: 7  
 Field of study: **Biotechnologies**

ISCED CODE: **0510/0888**  
 Duration: 2 years, 120 ECTS  
 Full-time learning  
 Language of teaching: Romanian

2nd Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Microbiological control of pharmaceutical products and processes	B422DOA01	CC	I	E	8
2	Biotechnology business start-up - legislation and industrial property	B422DOA02	CC	I	E	6
3	Ethics and academic integrity	B422DOS03	CC	I	PV	2
4	Colloidal systems for transport and drug delivery	B422DAA01	CO	I	PV	8
	Vectors for bioactive compounds transport	B422DAA02				
5	GMP and GLP regulation	B422DAS01	CO	I	E	6
	Bioprocess modelling	B422DAS02				
						<b>30</b>
6	<i>Drug design</i>	<i>B422DFC01</i>	<i>FC</i>	<i>I</i>	<i>PV</i>	3
7	<i>Databases for pharmaceutical biotechnologies</i>	<i>B422DFC02</i>	<i>FC</i>	<i>I</i>	<i>PV</i>	3
8	<i>Project management</i>	<i>B422DFC03</i>	<i>FC</i>	<i>I</i>	<i>PV</i>	2
						<b>38</b>
1	Biotechnology in cosmetic industry	B422DOS01	CC	II	E	6
2	Physico-chemical and biopharmaceutical control of drugs	B422DAS03	CO	II	PV	6
	Investigation methods in drug development	B422DAS04				
						<b>12</b>
3	Research practice (12 weeks)	B422DOS04	CC	II	C	14
4	Dissertation thesis elaboration (2 weeks)	B422DOS05	CC	II	C	4
						<b>30</b>
	Dissertation exam	-	-	II	-	10
						<b>78</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected; PV=Periodic verification



Faculty of Biotechnologies  
 Specialization: Master's in **BIOTECHNOLOGIES FOR ENVIRONMENTAL PROTECTION**  
 EQF LEVEL: 7  
 Field of study: : **Biotechnologies**

ISCED CODE: **0510/0888**  
 Duration: 2 years, 120 ECTS  
 Full-time learning  
 Language of teaching: Romanian

1st Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Molecular methods applied in environmental protection	B411DOA10	CC	I	E	8
2	Environmental chemistry and biochemistry	B411DOA02	CC	I	E	8
3	Environmental microbiology	B411DOA03	CC	I	E	8
4	Biodiversity and biodiversity management	B411DOS04	CC	I	E	6
						<b>30</b>
1	Applied ecotoxicology	B411DOA05	CC	II	E	8
2	Environmental policies and legislation	B411DOA06	CC	II	E	7
3	Membrane techniques	B411DOS02	CC	II	E	7
4	Waste water biotechnologies and biofilters	B411DOS03	CC	II	E	8
						<b>30</b>
	<b>TOTAL</b>					<b>60</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected; PV=Periodic verification



Faculty of Biotechnologies  
 Specialization: Master's in **BIOTECHNOLOGIES FOR ENVIRONMENTAL PROTECTION**  
 EQF LEVEL: 7  
 Field of study: **Biotechnologies**

ISCED CODE: **0510/0888**  
 Duration: 2 years, 120 ECTS  
 Full-time learning  
 Language of teaching: Romanian

2nd Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Biotechnological valorisation of agri-food waste	B412DOA06	CC	I	E	7
2	Ethics and academic integrity	B412DOS04	CC	I	PV	2
3	Microbial bioremediation	B412DOA07	CC	I	E	8
4	Renewable energies	B412DAA08	CO	I	E	5
	Alternative crops	B412DAA09				
5	Biopesticides, biofertilizers, biostimulators	B412DAA10	CO	I	E	8
	Environmental risk assessment for biotechnology products	B412DAA11				
						<b>30</b>
6	<i>Biotechnology business start-up: legislation and industrial property</i>	<i>B412DFS01</i>	<i>FC</i>	<i>I</i>	<i>E</i>	<i>3</i>
						<b>33</b>
1	Environmental management and audit	B412DOS05	CC	II	PV	5
2	Climate changes impact on terrestrial ecosystems	B412DAS10	CO	II	E	7
	Desertification	B412DAS11				
						<b>12</b>
3	Research practice (12 weeks)	B412DOS06	CC	II	C	14
4	Dissertation thesis elaboration (2 weeks)	B412DOS07	CC	II	C	4
						<b>30</b>
5	<i>Communication techniques</i>	<i>B412DFF02</i>	<i>FC</i>	<i>II</i>	<i>E</i>	<i>2</i>
6	<i>Applied biostatistics and dedicated IT programs</i>	<i>B412DFS02</i>	<i>FC</i>	<i>II</i>	<i>PV</i>	<i>3</i>
						<b>35</b>
	Dissertation exam	-	-	II	-	10
	<b>TOTAL</b>					<b>78</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected; PV=Periodic verification



# **Faculty of Management and Rural Development**





Faculty of Management and Rural Development  
 Specialization: Bachelor in **ENGINEERING AND MANAGEMENT OF AGRICULTURAL BUSINESSES**  
 EQF LEVEL: 6  
 Field of study: : **Engineering and Management in Agriculture and Rural Development**

ISCED CODE: **0510**  
 Duration: 4 years, 240 ECTS  
 Full-time learning  
 Language of teaching: Romanian

1st Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Mathematical Analysis	MDFI01	CC	I	E	4
2	Applied Informatics	MDFI02	CC	I	E	4
3	Botany, Physiology and Microbiology of Plants	MDDI03	CC	I	E	6
4	Soil Sciences and Agrotechnics	MDDI04	CC	I	C	4
5	Basic Economics (1, 2)	MDFI05	CC	I	E	4
6	Business English (1, 2)	MDC106	CC	I	C	2
7	Modern language (1, 2)	MDC107	CC	I	C	2
8	Physical Education	MDC113	CC	I	A/R	1
9	Practical Training 3 weeks	MDC114	CC	I	C	3
						<b>30</b>
10	<i>History of Culture</i>	<i>MDFac115 / FacIA</i>	<i>FC</i>	<i>I</i>	<i>C</i>	<i>3</i>
						<b>33</b>
1	Economics Basics (1, 2)	MDFI05	CC	II	E	4
2	Business English (1, 2)	MDC106	CC	II	C	2
3	Modern language (1, 2)	MDC107	CC	II	C	2
4	Statistics and Econometrics	MDFI08	CC	II	E	4
5	Computer Programming and Programming Languages	MDFI09	CC	II	E	4
6	Physics	MDFI10	CC	II	C	3
7	Mechanization	MDDI11	CC	II	E	4
8	Topography, Land Survey and Mechanical Drawing	MDDI12	CC	II	E	3
9	Physical Education	MDC113	CC	II	A/R	1
10	Practical Training	MDC114	CC	II	C	3
						<b>30</b>
11	<i>Production Systems Theory</i>	<i>MDFac116 / FacIC</i>	<i>FC</i>	<i>II</i>	<i>C</i>	<i>3</i>
12	<i>Engineering Topography</i>	<i>MDFac117 / FacID</i>	<i>FC</i>	<i>II</i>	<i>E</i>	<i>4</i>
13	<i>Voluntary activities</i>	<i>MDFAC118 / FacIE</i>	<i>FC</i>	<i>II</i>	<i>C</i>	<i>1</i>
						<b>38</b>
	<b>TOTAL</b>					<b>71</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected



Faculty of Management and Rural Development  
 Specialization: Bachelor in **ENGINEERING AND MANAGEMENT OF AGRICULTURAL BUSINESSES**  
 EQF LEVEL: 6  
 Field of study: : **Engineering and Management in Agriculture and Rural Development**

ISCED CODE: **0510**  
 Duration: 4 years, 240 ECTS  
 Full-time learning  
 Language of teaching: Romanian

2nd Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Agrochemistry and Plant Protection	MDD201	CC	I	E	6
2	Operational Researches	MDF202 / OP2B1	CO	I	C	4
	Linear Algebra	MDF203 / OP2B2				
3	Microeconomics	MDD204 / OP2C1	CO	I	E	4
	Banking Operations	MDD205 / OP2C2				
4	Communication and Public Relations	MDS206 / OP2D1	CO	I	C	4
	Insurance and Re-insurance	MDS207 / OP2D2				
5	Agricultural Technologies (1, 2)	MDD208	CC	I	E	6
6	Business English (3, 4)	MDC209	CC	I	C	2
7	Modern language (3, 4)	MDC210 / OP2A	CO	I	C	2
						<b>28</b>
8	Practical Training - 1.5 weeks	MDD221p; MDD201p	CC	I	C	2
						<b>30</b>
9	<i>Sports and leisure activities</i>	MDFAC221 / Fac2A	FC	I	A/R	2
10	<i>Organization and Evaluation of Land</i>	MDFAC223 / Fac2C	FC	I	E	4
						<b>36</b>
1	Business English (3, 4)	MDC209	CC	II	C	2
2	Modern language (3, 4)	MDC210 / OP2A	CO	II	C	2
3	Agricultural Technologies (1, 2)	MDD208	CC	II	E	4
4	Agricultural Products Preservation and Processing Technologies	MDS212	CC	II	E	4
5	Macroeconomics	MDS213	CC	II	E	4
6	Computer aided graphics	MDF214	CC	II	C	3
7	Rural Sociology	MDS215 / OP2E1	CO	II	C	3
	Philosophy	MDS216 / OP2E2				
8	Ecology and Environmental Protection	MDD217 / OP2F1	CO	II	C	3
	Chemistry	MDF218 / OP2F2				
9	Agricultural Constructions	MDD219 / OP2G1	CO	II	E	3
	Civil Engineering	MDDI220 / OP2G2				
						<b>28</b>
10	Practical Training- 1.5 weeks	MDD201p; MDD	CC	II	C	2
						<b>30</b>
11	<i>Sports and leisure activities</i>	MDFAC221 / Fac2A	FC	II	A/R	2
12	<i>Logistics</i>	MDFAC222 / Fac2B	FC	II	C	2
13	<i>Teledetection and Geographic Information Systems</i>	MDFAC224 / Fac2D	FC	II	E	4
14	<i>Voluntary activities</i>	MDFAC225 / Fac2E	FC	II	C	2
						<b>40</b>
	<b>TOTAL</b>					<b>76</b>



Faculty of Management and Rural Development  
 Specialization: Bachelor in **ENGINEERING AND MANAGEMENT OF AGRICULTURAL BUSINESSES**  
 EQF LEVEL: 6  
 Field of study: : **Engineering and Management in Agriculture and Rural Development**

ISCED CODE: **0510**  
 Duration: 4 years, 240 ECTS  
 Full-time learning  
 Language of teaching: Romanian

3rd Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	General and Strategic Management	MDF301	CC	I	E	4
2	Rural Economics	MDD302	CC	I	C	4
3	Accounting	MDD303	CC	I	E	4
4	Marketing	MDF304	CC	I	E	4
5	Sustainable Development	MDS305 / OP3A1	CO	I	C	5
	Environmental Management	MDS306 / OP3A2				
6	Business English (5,6)	MDC307	CC	I	C	2
7	Techno-Economic Analysis	MDD308	CC	I	E	4
						<b>27</b>
8	Practical Training 1.5 weeks	MDDE310p; MD-SE312p; MDSE311p	CC	I	C	3
						<b>30</b>
9	<i>Renewable Resources Management</i>	<i>MDFAC317 / Fac3A</i>	<i>FC</i>	<i>I</i>	<i>C</i>	4
10	<i>Commodity and Value Stock Exchange</i>	<i>MDFAC318 / Fac3B</i>	<i>FC</i>	<i>I</i>	<i>C</i>	2
11	<i>Marketing Projects</i>	<i>MDFAC222 / Fac3G</i>	<i>FC</i>	<i>I</i>	<i>E</i>	6
						<b>42</b>
1	Business English (5,6)	MDC307	CC	II	C	2
2	Production Management	MDD309	CC	II	E	4
3	Managerial Accounting and Informatics	MDD310	CC	II	E	4
4	Costs, Prices and Tariffs in Agriculture	MDS311	CC	II	E	4
5	Agromarketing	MDS312	CC	II	E	4
6	Human resources managemenet	MDD313	CC	II	C	3
7	Innovation and technical progress	MDS314	CC	II	C	3
8	Forestry	MDUS315 / OP3B1	CO	II	E	4
	Leadership	MDUS316 / OP3B2				
						<b>28</b>
9	Practical Training - 1.5 weeks	MDDE309p; MD-DE310p	CC	II	C	2
						<b>30</b>
10	<i>Agritourism</i>	<i>MDFAC319 / Fac3C</i>	<i>FC</i>	<i>II</i>	<i>C</i>	3
11	<i>Databases and Business Inteligence</i>	<i>MDFAC320 / Fac3E</i>	<i>FC</i>	<i>II</i>	<i>C</i>	3
12	<i>Voluntary activities</i>	<i>MDFAC321 / Fac3F</i>	<i>FC</i>	<i>II</i>	<i>C</i>	2
						<b>38</b>
	<b>TOTAL</b>					<b>80</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected





Faculty of Management and Rural Development  
 Specialization: Bachelor in **ENGINEERING AND MANAGEMENT  
 OF AGRICULTURAL BUSINESSES**  
 EQF LEVEL: 6  
 Field of study: : **Engineering and Management in Agriculture  
 and Rural Development**

ISCED CODE: **0510**  
 Duration: 4 years, 240 ECTS  
 Full-time learning  
 Language of teaching: Romanian

4th Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Rural Development	MDD401	CC	I	E	5
2	Simulated Enterprise	MDUS402	CC	I	C	4
3	Quality Management	MDD403	CC	I	E	5
4	Modelling and Simulation	MDS404	CC	I	E	5
5	Project Management	MDS405	CC	I	E	5
6	Common Agricultural Policies	MDS406	CC	I	C	3
7	Institutions and European Integration	MDD407 / OP4A1	CO	I	C	3
	Consulting	MDS408 / OP4A2				
						<b>30</b>
1	Negotiation Techniques	MDS409	CC	II	E	4
2	Commercial Law	MDD410	CC	II	C	4
3	Agrifood Economics	MDD411	CC	II	E	4
4	Domestic and International Trade	MDUS412	CC	II	E	4
5	Financial Management	MDD413	CC	II	C	4
						<b>20</b>
6	Practical Training	MDS414	CC	II	C	2
7	Diploma Project Elaboration - 3 weeks	MDS415	CC	II		8
						<b>30</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected



Faculty of Management and Rural Development  
 Specialization: Bachelor in **ENGINEERING AND MANAGEMENT  
 IN PUBLIC FOOD SUPPLY AND AGROTOURISM**  
 EQF LEVEL: 6  
 Field of study: : **Engineering and Management in Agriculture  
 and Rural Development**

ISCED CODE: **0510**  
 Duration: 4 years, 240 ECTS  
 Full-time learning  
 Language of teaching: Romanian

1st Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Mathematics, Statistics and Econometrics (1, 2)	TDF101	CC	I	E	4
2	Applied Informatics (1, 2)	TDF102	CC	I	E	4
3	Agrotechnics	TDD103	CC	I	E	4
4	Botany, Physiology and Food Microbiology	TDD104	CC	I	C	4
5	Topography, Land Survey and Mechanical Drawing	TDD105	CC	I	E	3
6	Business English (1, 2)	TDC106	CC	I	C	2
7	Economy bases (1, 2)	TDF107	CC	I	E	3
8	Modern language (1, 2)	TDC109 / OP1A	CO	I	C	2
9	Physical Education	TDC112	CC	I	A/R	2
						<b>28</b>
10	Practical training - 1.5 weeks	TDS113p	CC	I	C	2
						<b>30</b>
11	<i>EU Cultural Integration</i>	<i>TDFAC114 / Fac1A</i>	<i>FC</i>	<i>I</i>	<i>C</i>	<i>3</i>
12	<i>Philosophy</i>	<i>TDFAC115 / Fac1B</i>	<i>FC</i>	<i>I</i>	<i>C</i>	<i>3</i>
						<b>36</b>
1	Mathematics, Statistics and Econometrics (1, 2)	TDF101	CC	II	E	4
2	Applied Informatics (1, 2)	TDF102	CC	II	E	4
3	Botany, Physiology and Food Microbiology	TDD104	CC	II	E	4
4	Business English (1, 2)	TDC106	CC	II	C	2
5	Economy bases (1, 2)	TDF107	CC	II	E	3
6	Communication and Public Relations	TDC108	CC	II	C	3
7	Modern language (1, 2)	TDC109 / OP1A	CO	II	C	2
8	Agrotourist Constructions	TDS110 / OP2B1	CO	II	C	4
	Civil Engineering	TDD111 / OP2B2				
9	Physical Education	TDC112	CC	II	A/R	2
						<b>28</b>
10	Practical training - 1.5 weeks	TDS113p	CC	II	C	2
						<b>30</b>
11	<i>Engineering Topography</i>	<i>TDFAC116 / Fac1C</i>	<i>FC</i>	<i>II</i>	<i>E</i>	<i>4</i>
12	<i>Computer Assisted Design</i>	<i>TDFAC117 / Fac1D</i>	<i>FC</i>	<i>II</i>	<i>C</i>	<i>4</i>
13	<i>Voluntary activities</i>	<i>TDFAC118 / Fac1E</i>	<i>FC</i>	<i>II</i>	<i>C</i>	<i>1</i>
						<b>39</b>
<b>TOTAL</b>						<b>75</b>



Faculty of Management and Rural Development  
 Specialization: Bachelor in **ENGINEERING AND MANAGEMENT**  
**IN PUBLIC FOOD SUPPLY AND AGROTOURISM**  
 EQF LEVEL: 6  
 Field of study: : **Engineering and Management in Agriculture**  
**and Rural Development**

ISCED CODE: **0510**  
 Duration: 4 years, 240 ECTS  
 Full-time learning  
 Language of teaching: Romanian

2nd Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Agricultural Technologies (1,2)	TDD201	CC	I	E	4
2	Business English (3, 4)	TDC204	CC	I	C	2
3	Technological Machinery	TDS205	CC	I	E	4
4	General marketing	TDF206	CC	I	E	4
5	Rural Economy	TDD209	CC	I	E	4
6	Food Biochemistry and Nutrition Principles	TDF211	CC	I	C	4
7	Modern language (3, 4)	TDC212 / OP2A	CO	I	C	2
8	Agrotourist Land Improvement	TDS213 / OP2B1	CO	I	C	4
	Ecology and Ecotourism	TDD214 / OP2B2				
						<b>28</b>
9	Practical training - 1.5 weeks	TDS207p; TDU215p	CC	I		2
						<b>30</b>
10	Physical Education	TDFAC216 / Fac2A	FC	I	A/R	2
11	Elements of Romanian History	TDFAC217 / Fac2B	FC	I	C	3
12	Land Organisation and Evaluation	TDFAC220 / Fac2E	FC	I	E	4
13	Marketing Projects	TDFAC222 / Fac2G	FC	I	E	6
						<b>45</b>
1	Agricultural Technologies (1,2)	TDD201	CC	II	E	4
2	Agricultural Produce Preservation and Processing Technologies	TDD202	CC	II	E	4
3	Rural Sociology	TDU203	CC	II	C	4
4	Business English (3, 4)	TDC204	CC	II	C	2
5	Marketing in Public Food Supply and Agrotourism	TDS207	CC	II	E	4
6	Culinary Technology and Serving Techniques	TDS208	CC	II	C	5
7	Forestry and Forest Products	TDS210	CC	II	E	3
8	Modern language (3, 4)	TDC212 / OP2A	CO	II	C	2
						<b>28</b>
9	Practical training - 1.5 weeks	TDS208p	CC	II	C	2
						<b>30</b>
10	Physical Education and leisure activities	TDFAC216 / Fac2A	FC	II	A/R	2
11	Oenological Routes	TDFAC218 / Fac2C	FC	II	C	3
12	Teledetection and Geographic Information Systems	TDFAC219 / Fac2D	FC	II	E	4
13	Voluntary activities	TDFAC221 / Fac2F	FC	II	C	1
						<b>40</b>
<b>TOTAL</b>						<b>85</b>



Faculty of Management and Rural Development  
 Specialization: Bachelor in **ENGINEERING AND MANAGEMENT  
 IN PUBLIC FOOD SUPPLY AND AGROTOURISM**  
 EQF LEVEL: 6  
 Field of study: : **Engineering and Management in Agriculture  
 and Rural Development**

ISCED CODE: **0510**  
 Duration: 4 years, 240 ECTS  
 Full-time learning  
 Language of teaching: Romanian

3rd Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	General Management	TDF301	CC	I	E	4
2	Romania's Agrotourist Resources	TDS302	CC	I	C	3
3	Accounting	TDD303	CC	I	E	4
4	Business English (5,6)	TDC304	CC	I	C	2
5	Management and Techno-Economic Analysis of the Public Food Supply and Agrotourist Units	TDD306	CC	I	E	4
6	Public Food Supply and Agrotourism Legislation	TDS307	CC	I	C	3
7	Macroeconomy and Economy of Public Food Supply and Agrotourism	TDS308	CC	I	E	3
8	Community Agricultural Policies	TDD311 / OP3A1	CO	I	C	3
	Consulting	TDU312 / OP3A2				
						<b>26</b>
9	Practical training - 1.5 weeks	TDD303p; TDS302p	CC	I		4
						<b>30</b>
10	<i>Ethnology</i>	TDFAC315 / FAC3A	FC	I	C	4
11	<i>Sensory Analysis of Agrofood Products</i>	TDFAC317 / FAC3C	FC	I	C	3
						<b>37</b>
1	Accounting	TDD303	CC	II	E	4
2	Business English (5,6)	TDC304	CC	II	C	2
3	Consumer's Protection	TDS305	CC	II	C	3
4	Management and Techno-Economic Analysis of the Public Food Supply and Agrotourist Units	TDD306	CC	II	E	4
5	Macroeconomy and Economy of Public Food Supply and Agrotourism	TDS308	CC	II	C	3
6	Costs, Prices and Tariffs in Agriculture	TDS309	CC	II	E	4
7	Integration, Institutions and European Funds	TDD310	CC	II	E	3
8	Investment Efficiency in Public Food Supply and Agrotourism	TDU313 / OP4B1	CO	II	C	3
	Agrotouristic Services	TDU314 / OP4B2				
						<b>26</b>
9	Practical training - 1.5 weeks	TDS302p; TDS306p	CC	II	C	4
						<b>30</b>
10	<i>Cyनेtics</i>	TDFAC316 / FAC3B	FC	II	C	3
11	<i>Elements of Landscape Architecture</i>	TDFAC318 / FAC3D	FC	II	C	4
12	<i>Databases and Business Intelligence</i>	TDFAC319 / FAC3E	FC	II	C	3
13	<i>Voluntary activities</i>	TDFAC320 / FAC3F	FC	II	C	1
						<b>41</b>
	<b>TOTAL</b>					<b>78</b>



Faculty of Management and Rural Development  
 Specialization: Bachelor in **ENGINEERING AND MANAGEMENT  
 IN PUBLIC FOOD SUPPLY AND AGROTOURISM**  
 EQF LEVEL: 6  
 Field of study: : **Engineering and Management in Agriculture  
 and Rural Development**

ISCED CODE: **0510**  
 Duration: 4 years, 240 ECTS  
 Full-time learning  
 Language of teaching: Romanian

4th Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Human Resources Management in Public Food Supply and Agrotourism	TDD401	CC	I	E	3
2	Simulated Enterprise	TDU403	CC	I	C	4
3	Agricultural Systems Modelling	TDU404	CC	I	C	5
4	Project Management	TDS405	CC	I	E	5
5	Quality Management of Services in Public Food Supply and Agrotourism	TDS406	CC	I	E	5
6	Sustainable Rural Development	TDD407	CC	I	E	5
7	Environmental Management	TDD408 / OP4A1	CO	I	C	3
	Financial Management	TDD409 / OP4A2				
						<b>30</b>
8	<i>International Tourism and Agrotourism</i>	<i>TDFAC416 / FAC4A</i>	<i>FC</i>	<i>I</i>	<i>C</i>	<i>3</i>
9	<i>Medicinal and Meliferous Plants</i>	<i>TDFAC417 / FAC4B</i>	<i>FC</i>	<i>I</i>	<i>C</i>	<i>3</i>
						<b>36</b>
1	Insurance and Re-insurance in Public Food Supply and Agrotourist Units	TDS402	CC	II	E	4
2	Business Management	TDD410	CC	II	E	4
3	Negotiation Techniques	TDS411	CC	II	C	4
4	Science of Commodities	TDU412	CC	II	E	4
5	Geography of Romania	TDS413	CC	II	E	4
						<b>20</b>
6	Practical training - 1 week	TDS414p	CC	II	C	2
7	Diploma Project Elaboration	TDS415p	CC	II		8
						<b>30</b>
	<b>TOTAL</b>					<b>66</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected



Faculty of Management and Rural Development  
 Specialization: Master's in **MANAGEMENT OF RURAL HOSPITALITY INDUSTRY**  
 EQF LEVEL: 7  
 Field of study: : **Engineering and Management in Agriculture and Rural Development**

ISCED CODE: **0419/0731**  
 Duration: 2 years, 120 ECTS  
 Full-time learning  
 Language of teaching: **English**

1st Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Strategic Management and Project Portfolios	ETS101	CC	I	E	5
2	Management of rural tourism resources	ETS102	CC	I	E	5
3	Economics of Services	ETS103	CC	I	E	5
4	Communication and Negotiation in Business	ETS104	CC	I	E	5
5	Diagnosis and evaluation of rural tourism and public alimentation units	ETS105	CC	I	E	5
6	Tourism arrangement of the territory	ETS106	CC	I	C	5
						<b>30</b>
1	Depth Methods of Administration	ETA107	CC	II	E	5
2	Risk Management	ETA108	CC	II	E	5
3	Construction Projects	ETA109	CC	II	E	5
4	Program's Management	ETA110	CC	II	E	5
5	Financial management of tourist units	ETA111	CC	II	E	5
6	Services Marketing	ETA112	CC	II	C	5
						<b>30</b>
	<b>TOTAL</b>					<b>60</b>

2nd Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Quality Management	ETA201	CC	I	E	5
2	Authorization and Control in Public Food Service and Tourism	ETA202	CC	I	C	5
3	Restaurant Technology	ETA203	CC	I	E	5
4	Rural Sociology	ETA204 / B1	CO	I	C	5
	Economics, Expertise and Environment Control	ETA205 / B2				
5	Investment management in tourism	ETA206	CC	I	C	5
6	Travel Agency Management	ETA207	CC	I	E	5
						<b>30</b>
1	Ethics and academic integrity	EA206	CC	II	C	2
2	Specialized Internship	ES207	CC	II	C	13
3	Research and Dissertation Preparation	ES208	CC	II	C	15
						<b>30</b>
	Defending the dissertation					
	<b>TOTAL</b>					<b>60</b>



Faculty of Management and Rural Development  
 Specialization: Master's in **FARM MANAGEMENT AND AGRIBUSINESS DEVELOPMENT**  
 EQF LEVEL: 7  
 Field of study: : **Engineering and Management in Agriculture and Rural Development**

ISCED CODE: **0811**  
 Duration: 2 years, 120 ECTS  
 Full-time learning  
 Language of teaching: **English**

1st Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Business Management	EA101	CC	I	E	5
2	Technique and Economy of Production	ES102	CC	I	E	5
3	Control and Administration of Agricultural Units	EA103	CC	I	E	5
4	Systems management unit	ES104	CC	I	C	5
5	Sustainable Technologies in Agriculture	EA105	CC	I	E	5
6	Development Models for Agricultural Holdings	ES106 / A1	CO	I	E	5
	Evaluation and Accounting	EA107 / A2				
						<b>30</b>
1	Agricultural Policies	EA108	CC	II	E	5
2	Marketing Strategies	EA109	CC	II	E	5
3	Unit Planning	EA110	CC	II	E	5
4	Environmental Management	EA111	CC	II	C	5
5	Rural and Regional Development Concepts	EA112	CC	II	E	5
6	Project Planning	EA113	CC	II	E	5
						<b>30</b>
	<b>TOTAL</b>					<b>60</b>

2nd Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Agricultural Management Consultancy	ES201	CC	I	C	6
2	Domestic and International Trade	EA202	CC	I	C	6
3	Sustainable Energy	EA203	CC	I	E	6
4	Quality Management	EA204	CC	I	C	6
5	Community Projects	ES205	CC	I	C	6
						<b>30</b>
1	Ethics and academic integrity	EA206	CC	II	C	2
2	Specialized Internship	ES207	CC	II	C	13
3	Research and Dissertation Preparation	ES208	CC	II	C	15
						<b>30</b>
	Defending the dissertation			II		
	<b>TOTAL</b>					<b>60</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected



Faculty of Management and Rural Development  
 Specialization: Master's in **AGRIBUSINESS**  
 EQF LEVEL: 7  
 Field of study: : **Engineering and Management in Agriculture  
 and Rural Development**

ISCED CODE: **0811**  
 Duration: 2 years, 120 ECTS  
 Full-time learning  
 Language of teaching: Romanian

1st Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Business Management	BA101	CC	I	E	5
2	The Technique and the Economy of Production	BS102	CC	I	E	5
3	Control and Administration of the Agricultural Units	BA103	CC	I	E	5
4	Informatics and Statistical Notions	BS104	CC	I	C	5
5	Sustainable Technologies in Agriculture	BA105	CC	I	E	5
6	Models of Development in Agricultural Farms	BS106 / OPA1	CO	I	C	5
	Evaluation and Accounting	BA107 / OPA2				
						<b>30</b>
1	Agricultural Policies	BA108	CC	II	E	5
2	Marketing Strategy	BA109	CC	II	E	5
3	Planning Unit	BA110	CC	II	E	5
4	Management of the Environment	BA111	CC	II	C	5
5	Rural and Regional Development Concepts	BA112	CC	II	E	5
6	Consulting in Agricultural Management	BS113	CC	II	C	5
						<b>30</b>
	<b>TOTAL</b>					<b>60</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected





Faculty of Management and Rural Development  
 Specialization: Master's in **AGRIBUSINESS**  
 EQF LEVEL: 7  
 Field of study: : **Engineering and Management in Agriculture  
 and Rural Development**

ISCED CODE: **0811**  
 Duration: 2 years, 120 ECTS  
 Full-time learning  
 Language of teaching: Romanian

2nd Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Projects evaluation	BA201	CC	I	E	5
2	Domestic and International Trade	BA202	CC	I	E	5
3	Sustainable Energies	BA203	CC	I	E	5
4	Quality Management	BA204	CC	I	E	5
5	Community Projects	BS205	CC	I	C	5
6	Business English	BA206	CC	I	C	5
						<b>30</b>
1	Ethics and academic integrity	BA207	CC	II	C	2
2	Specialized Internship	BA208	CC	II	C	13
3	Research and Dissertation Preparation	BA209	CC	II	C	15
						<b>30</b>
4	Associative forms in the Romanian agri-food sector	BAF210	FC	II	C	5
						<b>35</b>
	Defending the dissertation			II		
	<b>TOTAL</b>					<b>65</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected



Faculty of Management and Rural Development  
 Specialization: Master's in **MANAGEMENT IN AGRITOURISM  
 AND PUBLIC FOOD SUPPLY**  
 EQF LEVEL: 7  
 Field of study: : **Engineering and Management in Agriculture  
 and Rural Development**

ISCED CODE: **0731/0811**  
 Duration: 2 years, 120 ECTS  
 Full-time learning  
 Language of teaching: Romanian

1st Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Strategic Management and Projects Portfolios	AS101	CC	I	E	5
2	Services Marketing	AA102 / OPA1	CO	I	C	5
	Environment Law	AA103 / OPA2				
3	Economics of Services	AS104	CC	I	E	5
4	Communication and Negotiation in Business	AS105	CC	I	E	5
5	Diagnosis and Evaluation of Public Food Supply and Agritourism	AS106	CC	I	C	5
6	Construction Projects	AA107	CC	I	C	5
						<b>30</b>
1	Depth Methods of Administration	AA108	CC	II	E	5
2	Risk Management	AA109	CC	II	E	5
3	Tourism Arrangement of the Territory	AS110	CC	II	C	5
4	Programs Management	AA111	CC	II	E	5
5	Financial Management of Investments Programs	AA112	CC	II	E	5
6	Management of Agritourist Resources	AS113	CC	II	E	5
						<b>30</b>
	<b>TOTAL</b>					<b>60</b>

2nd Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Quality Management	AA201	CC	I	C	5
2	Authorisation and Control in Public Food Supply and Agritourism	AA202	CC	I	E	5
3	Restaurants Technology	AA203	CC	I	E	5
4	Rural Sociology	AA204 / OPB1	CO	I	C	5
	Economics, Expertise and Environment Control	AA205 / OPB2				
5	Investments Management in Tourism	AA206	CC	I	E	5
6	Travel Agency Management	AA207	CC	I	C	5
						<b>30</b>
1	Ethics and academic integrity	AA208	CC	II	C	2
2	Specialized Internship	AA209	CC	II	C	13
3	Research and Dissertation Preparation	AA210	CC	II	C	15
						<b>30</b>
	Defending the dissertation			II		
	<b>TOTAL</b>					<b>60</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course  
 Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected



Faculty of Management and Rural Development  
 Specialization: Master's in **MANAGEMENT AND INTERNAL AUDIT**  
 EQF LEVEL: 7  
 Field of study: : **Engineering and Management in Agriculture and Rural Development**

ISCED CODE: **0413**  
 Duration: 2 years, 120 ECTS  
 Full-time learning  
 Language of teaching: Romanian

1st Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Performance Management	MAI101	CC	I	E	6
2	Managerial Accounting	MAI102	CC	I	E	6
3	Quality Management	MAI103	CC	I	C	6
4	Corporate Governance - Concepts and Risk Management	MAI104	CC	I	E	6
5	Internal Audit – Concepts and Planning	MAI105	CC	I	E	6
						<b>30</b>
1	Corporate Governance - Managerial Internal Control Systems	MAI106	CC	II	E	6
2	Internal Audit – Risk Evaluation	MAI107	CC	II	C	6
3	Information Systems in Business Management	MAI108	CC	II	E	6
4	Public Finances	MAI109	CC	II	E	6
5	Public Procurement Procedures	MAI110	CC	II	C	6
						<b>30</b>
	<b>TOTAL</b>					<b>60</b>

2nd Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Projects evaluation	MAI201	CC	I	C	6
2	Business Law	MAI202	CC	I	C	6
3	Internal Audit - conducting missions, case studies	MAI203	CC	I	C	6
4	European Public Policies	MAI204	CC	I	E	6
5	Techno-Economic Diagnosis and Business Evaluation	MAI205	CC	I	E	6
						<b>30</b>
1	Ethics and academic integrity	MAI206	CC	II	C	2
2	Specialized Internship	MAI207	CC	II	C	13
3	Research and Dissertation Preparation	MAI208	CC	II	C	15
						<b>30</b>
	Defending the dissertation			II		
	<b>TOTAL</b>					<b>60</b>

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Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected



Faculty of Management and Rural Development  
 Specialization: Master's in **MANAGEMENT AND RURAL DEVELOPMENT**  
 EQF LEVEL: 7  
 Field of study: : **Engineering and Management in Agriculture and Rural Development**

ISCED CODE: **0413**  
 Duration: 2 years, 120 ECTS  
 Full-time learning  
 Language of teaching: Romanian

1st Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Informatics and Statistics Notions	DA101	CC	I	E	5
2	Agricultural and Food Policies	DA102	CC	I	E	5
3	European Union Institutions	DS103	CC	I	E	5
4	Business English	DA104	CC	I	C	5
5	Marketing Services in Agriculture	DA105	CC	I	E	5
6	Computer Assisted Design	DS106	CC	I	C	5
						<b>30</b>
1	Integrated Land Improvement	DA107	CC	II	E	5
2	Rural Space Management	DA108	CC	II	E	5
3	Theories and Strategies for Environmental Protection	DS109	CC	II	E	5
4	Environmental Restoration and Conservation Management	DA110	CC	II	C	5
5	Consulting	DA111	CC	II	C	5
6	Public Finances	DS112 / OPA1	CO	II	E	5
	Small and Medium-sized Enterprises Management	DA113 / OPA2				
						<b>30</b>
<b>TOTAL</b>						<b>60</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected



Faculty of Management and Rural Development  
 Specialization: Master's in **MANAGEMENT AND RURAL DEVELOPMENT**  
 EQF LEVEL: 7  
 Field of study: : **Engineering and Management in Agriculture and Rural Development**

ISCED CODE: **0413**  
 Duration: 2 years, 120 ECTS  
 Full-time learning  
 Language of teaching: Romanian

2nd Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Project evaluation	DA201	CC	I	E	5
2	Rural Development Legislation	DS202	CC	I	E	5
3	Environmental Economics	DA203	CC	I	E	5
4	Applied Sociology	DA204	CC	I	C	5
5	Rural and Regional Development Management	DA205	CC	I	E	5
6	Community Projects	DA206	CC	I	C	5
						<b>30</b>
1	Ethics and academic integrity	DA207	CC	II	C	2
2	Specialized Internship	DA208	CC	II	C	13
3	Research and Dissertation Preparation	DA209	CC	II	C	15
						<b>30</b>
4	Associative forms in the Romanian agri-food sector	DAF210	FC	II	C	5
						<b>35</b>
	Defending the dissertation			II		
	<b>TOTAL</b>					<b>65</b>

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Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected



Faculty of Management and Rural Development  
 Specialization: Master's in **QUALITY AND INNOVATION MANAGEMENT  
 IN THE AGRIFOOD DOMAIN**  
 EQF LEVEL: 7  
 Field of study: : **Engineering and Management in Agriculture  
 and Rural Development**

ISCED CODE: **0721**  
 Duration: 2 years, 120 ECTS  
 Full-time learning  
 Language of teaching: Romanian

1st Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	General Characteristic of Products	CA101	CC	I	E	5
2	New Production Techniques	CA102	CC	I	E	5
3	The Agri-food Chain	CA103	CC	I	C	5
4	Agri-food Economics	CS104	CC	I	E	5
5	Food Legislation	CS105	CC	I	C	5
6	Production Process Principles	CA106	CC	I	E	5
						<b>30</b>
1	Qualitative and Quantitative Marketing	CA107	CC	II	E	6
2	New Quality Assessment Techniques	CA108	CC	II	E	6
3	Production Logistics	CA109	CC	II	E	6
4	Machines and Equipment in the Food Industry	CA110	CC	II	C	6
5	Packaging Techniques	CA111	CC	II	C	6
						<b>30</b>
	<b>TOTAL</b>					<b>60</b>

2nd Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Marketing strategies	CA201	CC	I	E	5
2	Total Quality Management	CA202	CC	I	E	5
3	Food Safety Techniques	CA203	CC	I	C	5
4	Human Resources Management	CA204	CC	I	E	5
5	Project evaluation	CA205	CC	I	E	5
6	Notions of Informatics and Statistics	CA206	CC	I	C	5
						<b>30</b>
1	Ethics and academic integrity	CA207	CC	II	C	2
2	Specialized Internship	CA208	CC	II	C	13
3	Research and Dissertation Preparation	CA209	CC	II	C	15
						<b>30</b>
	Defending the dissertation			II		
	<b>TOTAL</b>					<b>60</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected



Faculty of Management and Rural Development  
 Specialization: Master's in **HOSPITALITY MANAGEMENT**  
 EQF LEVEL: 7  
 Field of study: : **Engineering and Management in Agriculture and Rural Development**

ISCED CODE: **1013**  
 Duration: 2 years, 120 ECTS  
 Full-time learning  
 Language of teaching: Romanian

1st Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Ethics and academic integrity	MIO101	CC	I	C	3
2	Digital marketing in hospitality	MIO102 / OPA1	CO	I	C	5
	Trends in consumer behaviour	MIO103 / OPA2				
3	Managerial accounting in the hospitality industry	MIO104	CC	I	E	6
4	Hospitality economy	MIO105	CC	I	E	5
5	Negotiating and contracting	MIO106	CC	I	E	6
6	Entrepreneurship in hospitality	MIO107	CC	I	E	5
						<b>30</b>
1	Digitisation and change management	MIO108	CC	II	E	6
2	Risk management	MIO109 / OPB1	CO	II	C	6
	Events management	MIO110 / OPB2				
3	Sustainability and responsibility in hospitality	MIO111	CC	II	C	6
4	Economic and financial analysis	MIO112	CC	II	E	6
5	Operations management in hospitality	MIO113	CC	II	E	6
						<b>30</b>
						<b>60</b>

2nd Year of Study						
No. crt.	Course title	Course code	Course type	Semester	Final assesment type	No. of ECTS
1	Quality management in hospitality	MIO201	CC	I	E	6
2	Financing programmes	MIO202	CC	I	E	6
3	Culinary art	MIO203	CC	I	C	6
4	Human Resources Management	MIO204 / OPC1	CO	I	E	6
	Multicultural leadership	MIO205 / OPC2				
5	Trends in accommodation facilities	MIO206	CC	I	E	6
						<b>30</b>
1	Specialized Internship	MIO207	CC	II	C	15
2	Research and Dissertation Preparation	MIO208	CC	II	C	15
						<b>30</b>
	Defending the dissertation			II		
	<b>TOTAL</b>					<b>60</b>

Type of course: (CC)=Compulsory course; (CO)=Compulsory optional course; (FC)=Facultative course

Type of final examination: E= Exam-written; P= Project; C= Colloquy; A/R=Admitted/Rejected



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